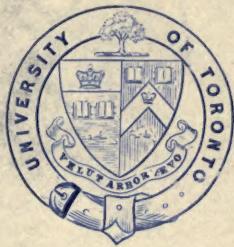


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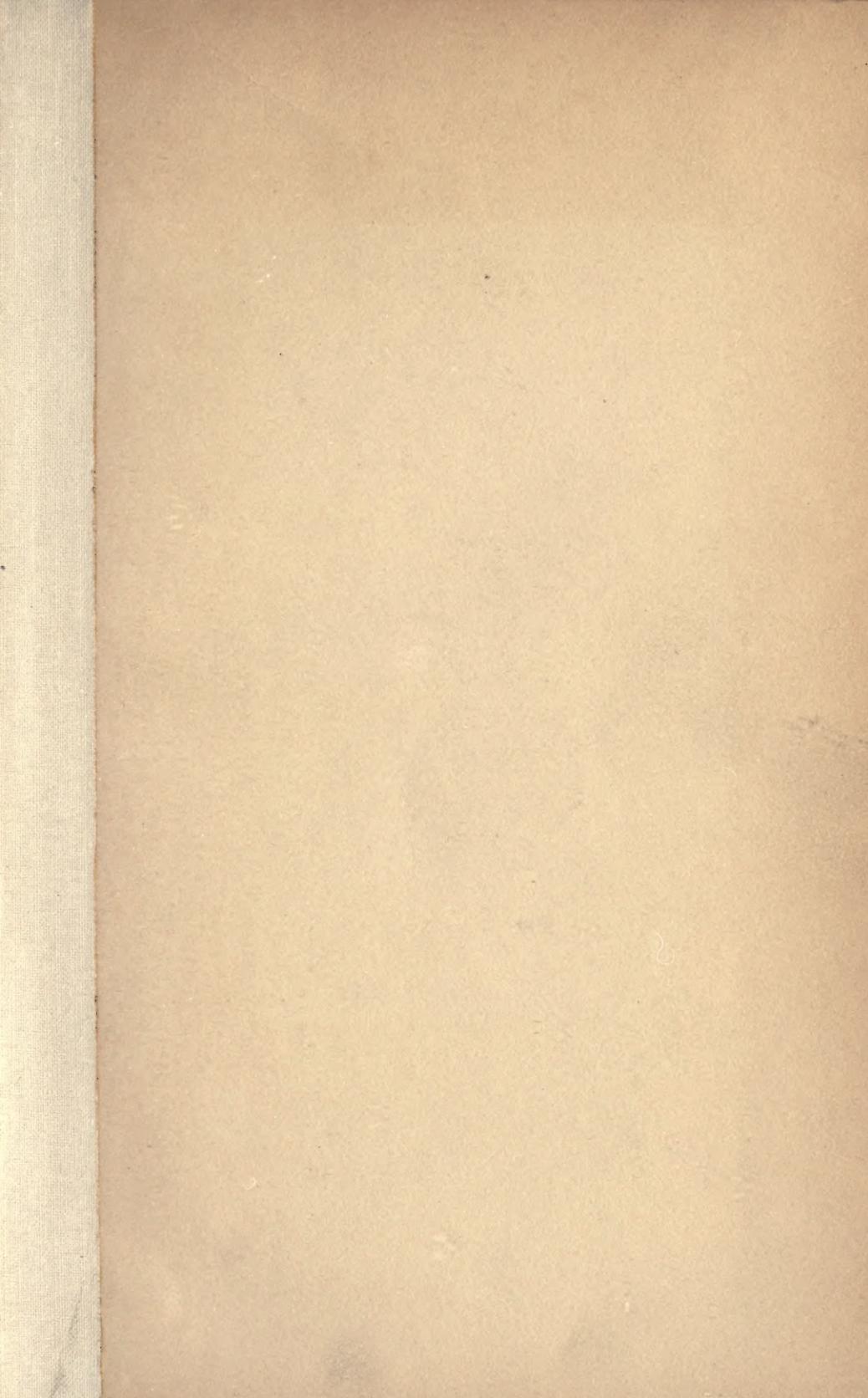
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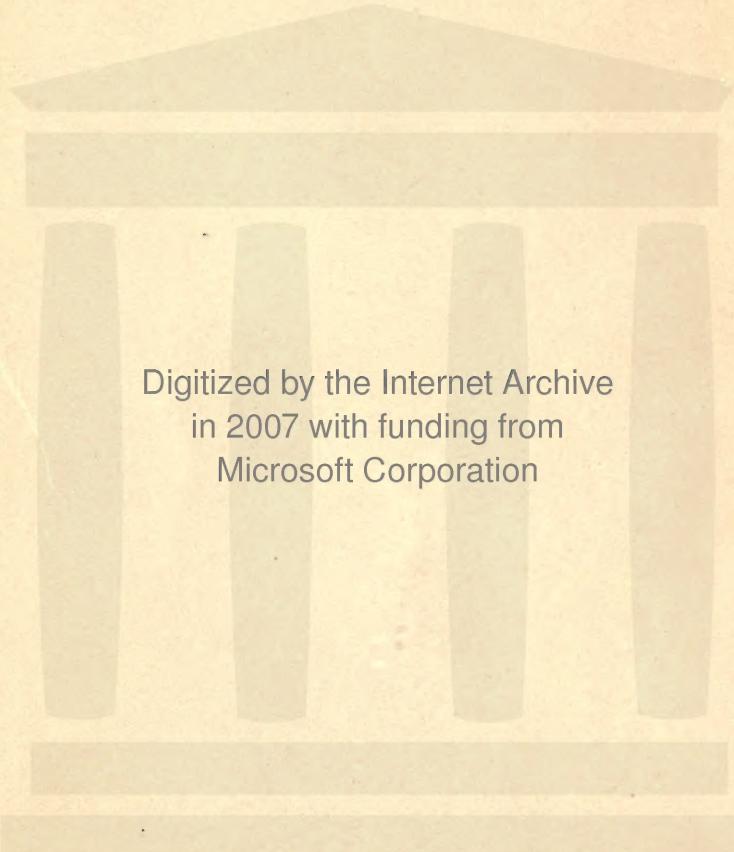
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# PSYCHOLOGICAL TESTS

## A BIBLIOGRAPHY

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## PREFACE

The literature of psychological tests, although it has appeared for the most part since 1910, is notwithstanding its recent date very copious and very widely scattered. For this reason it has seemed to us worth while to undertake the preparation of a bibliography covering the entire field, and including as the first of a series of supplements a bibliography of the still more recent subject of pedagogical tests.

This bibliography with its supplements will be little more than a catalog of the Psychological and Pedagogical Test Literature contained in the library which is part of the permanent test exhibit of the Bureau of Educational Experiments.

Owing to the impossibility of securing foreign periodicals, this part of the work is necessarily incomplete. The Bureau hopes to keep the bibliography up to date by yearly reprints and to insert the foreign material when this becomes possible.

Included among the references is the Bibliography of Binet Tests up to 1914, by Samuel Kohs, and the list of vocational test literature from "Vocational Psychology" by H. L. Hollingworth. To both authors we are greatly indebted.

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# PSYCHOLOGICAL TESTS

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## LITERATURE PERTAINING TO THE BINET-SIMON SCALE.

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**Abelson, A. R.** The Measurement of Mental Ability of "Backward" Children. *Brit. J. of Psychol.*, 1911, 4: 268-314.

Thirteen tests suggested, six of them being very closely related to those of Binet.

**Addams, George S.** Defectives in the Juvenile Court. *Training School Bull.*, Vol. II., No. 4, June, 1914.

Some facts showing the importance of the Binet tests in Juvenile Court work.

**Adler, Martha.** Mental Tests used as a Basis for the Classification of School Children. *J. of Educ. Psychol.*, 1914, 5: 22-28.

An account of an experiment in grading school children with the help of the Binet tests.

**Anderson, V. V.** A Classification of Border-line cases amongst Offenders. *J. of Crim. Law and Criminol.*, Vol. VI., No. 5, Jan., 1916.

**Anderson, V. V.** A Proper Classification of Border-line Mental Cases Amongst Offenders. *Boston Med. and Surg. J.*, 1915, 173: 466-469.

**Anonymous.** Applying the Binet Test to Blind Children. Survey, Vol. XXXV., No. 5, Oct. 30, 1915.

Brief summary of Robert Irwin's work with blind children.

**Anonymous.** A Standard Scale of Intelligence. *School Hygiene*, 1910, 1: 102-108.

Explanation of the tests.

**Anonymous.** Modo de aplicar la escala métrica de Binet. *Rev. de educación*. 1911, 1: 43-54.

**Ayres, L. P.** The Binet-Simon Measuring Scale for Intelligence: Some Criticisms and Suggestions. Psychol. Clinic, Vol. V., No. 6, Nov. 15, 1911.

A general adverse criticism of the scale. (See Kuhlmann's reply.)

**Baroncini, L.** Riposta alle osservazioni di Alfredo Binet. Rivista di psicol. 1910, 6: 185-188.

**Baroncini, L. e Sarteschi, U.** Ricerche di Psicologia individuale nei dementi. Rivista di psicol., 1910, 6: 1-23.

The application of the Binet tests to sixty demented.

**Bateman, W. G.** The Naming of Colors by Children—The Binet Test. Ped. Sem., 1915, 22:469-486.

Summary of the observations of various investigators in regard to the ages at which children are able to name colors.

**Bell, C. F.** Another Experience with the Binet Test. Training School Bull., Vol. X., No. 5, Sept., 1913.

An excellent illustration of the efficiency and accuracy of the scale for special class purposes.

**Bell, J. C.** Recent Literature on the Binet Tests. J. of Educ. Psychol., 1912, 3: 101-110.

A comprehensive review and criticism.

**Berry, C. S.** A comparison of the Binet Tests of 1908 and 1911. J. of Educ. Psychol., 1912, 4:444-451.

A valuable comparison and clear summary of the differences.

**Berry, C. S.** Eighty-two Children retested by the Binet Tests of Intelligence. 21. Ann. Meetg. Amer. Psychol. Assoc., Clev., Ohio, 1912-1913.

**Berry, C. S.** Some Limitations of the Binet-Simon Tests. 4. Intern. Cong. School Hyg., Buffalo, 1913, Vol. V.

The scale was not designed to give the examiner a complete picture of the subject's mental processes. Further standardizations are necessary.

**Binet, A.** L'Etude experimentale de l'intelligence. Paris: Schleicher frères, 1900, 1903.

**Binet, A.** A propos de la mesure de l'intelligence. Année psychol. 1905, 11: 69-82.

Psychological and anthropometrical studies prove that the relation between school grade and chronological age is a fair index of a child's mentality.

**Binet, A.** Les enfants anormaux; guide pour l'admission des enfants anormaux dans les classes de perfectionnement. Paris: Colin, 1907.

The use of the scale for the purpose of placing children in special classes.

**Binet, A.** Les idées modernes sur les enfants. Paris: Flammarion, 1909. Leipzig: Wunderlich, 1912 (transl. G. Anschütz and W. J. Ruttman).

Further extension of his 1908 scale and suggested changes in the order of the tests.

**Binet, A.** A proposito delle "Ricerche di Psicologia individuale nei dementi" di Baroncini e Sarteschi. Rivista di psicol. 1910, 6: 184-185.

A criticism of both the work of these Italian experimenters and the interrogation method of Ferrari.

**Binet, A.** Comment les instituteurs jugent-ils l'intelligence d'un écolier? Bull. Soc. libre Etude de l'Enfant. 1910, 10: 172-182.

Results show marked inaccuracy in judgments when based on other than sound experiment, training and experience.

**Binet, A.** Nouvelles recherches sur la mesure du niveau intellectuel chez les enfants d'école. Année psychol. 1911, 17: 145-201.

A review of the results obtained by the use of the scale in different countries. Presentation of the 1911 revision. Binet's last work on mental tests.

**Binet, A., et Simon, Th.** Mitteilung über die neuen Methoden der Diagnose des Kretinismus, Schwachsinn und mangelhafter Entwicklung. Eos 1905, 1: 247-251.

**Binet, A., et Simon, Th.** Méthodes nouvelles pour diagnostiquer l'idiotie, l'imbecilité et la débilité mentale. 5. cong. intern. di psicol., Roma, 1905, pp. 507-510.

A short summary of their method in diagnosing degrees of defect.

**Binet, A., et Simon, Th.** Sur la nécessité d'établir un diagnostic scientifique des états inférieurs de l'intelligence. Année psychol. 1905, 11: 163-190.

Discussion of the errors made in diagnosing mental defect. A plea for the careful study and classification of symptoms. A short history of the classification of feeble-minded. The proposal of a scheme for "psychological classification."

**Binet, A., et Simon, Th.** Méthodes nouvelles pour le diagnostic du niveau intellectuel des anormaux. Année psychol. 1905, 11: 191-244.

For the first time a scale consisting of thirty tests is proposed to measure intelligence. Compared to the "medical and pedagogical methods," the "psychological" is chosen as the most direct and giving the best results.

**Binet, A., et Simon, Th.** Application des méthodes nouvelles au diagnostic du niveau intellectuel chez des enfants normaux et anormaux d'hospice et d'école primaire. Année psychol. 1905, 11: 245-336.

After expounding the theory they proceed to prove it. Their results are arranged according to group, test and reactions at each age level. The remarkable value of the scale is proved, although some changes need to be made.

**Binet, A., et Simon, Th.** Le développement de l'intelligence chez les enfants. Année psychol. 1908, 14: 1-94.

Having gained a deeper insight into the evolution and development of intelligence, the authors revised their old scale and added new tests, arranging the questions according to mental age. Over three hundred children were examined in order to verify each test. The results as well as the individual tests are thoroughly discussed.

**Binet, A., et Simon, Th.** Langage et pensée. Année psychol. 1908, 14: 284-339.

The possibility of a hierarchy of tests into adulthood.

**Binet, A., et Simon, Th.** L'intelligence des imbéciles. Année psychol. 1909, 15: 1-147.

**Binet, A., et Simon, Th.** Nouvelle théorie psychologique et clinique de la demence. Année psychol. 1909, 15: 168-272.

Some interesting results obtained from the application of the scale to demented.

**Binet, A., et Simon, Th.** La mesure du développement de l'intelligence chez les jeunes enfants. Bull. Soc. libre Etude psychol. de l'Enfant. 1911, 11: 187-256.

The 1911 revision of the 1908 scale with thorough instructions for its use. Three important changes made.

**Binet, A., and Simon, Th.** The Development of Intelligence in Children (Binet-Simon Scale). Trans. by Elizabeth S. Kite. Publication of the Training School at Vineland, N. J., Dept. of Research, No. 11, May, 1916, from L'Année Psychol.

Five papers on intellectual level giving a history and development of the Binet-Simon Scale.

**Binet, A., and Simon, Th.** The Intelligence of the Feeble-Minded. Trans. by Elizabeth S. Kite. Publication of the Training School at Vineland, N. J., Dept. of Research, No. 12, June, 1916.

Includes three studies of feeble-mindedness from L'Année Psychol.

**Bloch, E.** Ueber Wiederholung der Binet-Simonscher Intelligenzprüfung an denselben schwachsinnigen Kindern nach Ablauf eines Jahres. Zsch. für. d. ges. Neur. u. Psychiat. 1915, 28:445-455.

**Bloch, E., und Lippa, H.** Die Intelligenzprüfungsmethode von Binet-Simon (1908) an schwachsinnigen Kindern. Zsch. f. angew. Psychol. 1913, 7: 397-409.

Forty-one boys and thirty girls, eight to fifteen years. Tables and results. Satisfied with the scale as a means of grading intelligence.

**Bloch, E., und Lippa, H.** Ueber Wiederholung der Binet-Simonschen Intelligenzprüfungen an schwachsinnigen Kindern nach einem Jahre. Zsch. f. angew. Psychol. 1915, 9: 512-515.

**Bloch, E., und Preiss, A.** Ueber Intelligenzprüfungen an normalen Volksschulkindern nach Boerntag (Methode von Binet und Simon.) Zsch. f. angew. Psychol. 1912, 6: 539-547.

Seventy-nine boys and seventy-six girls. Boerntag's results substantiated and criticised. Satisfied with the scale.

**Bluemel, M. A.** Binet Tests on 200 Juvenile Delinquents. Training School Bull., Vol. XII., No. 8, Dec., 1915.

The Goddard revision of the Binet scale used in the Juvenile Court of Denver. The majority of subjects were over twelve. A large per cent. were found over three years retarded.

**Boerntag, O. A.** Binet's Arbeiten über die intellektuelle Entwicklung des Schulkindes. (1894-1909). Zsch. f. angew. Psychol. 1909, 3:230-259.

An excellent summary of Binet's work on intelligence tests. He traces carefully the development of Binet's thought on the problem of measuring mentality.

**Bobertag, O.** Neure Arbeiten über Intelligenzprüfung.  
Zsch. f. angew. Psychol. 1911, 5:204-210.  
A critical review of five articles.

**Bobertag, O.** Intelligenzprüfungen an Schulkindern. Die -  
Grenzboten 1911, 70:375-384.

**Bobertag, O.** Ueber Intelligenzprüfungen (nach der  
Methode von Binet and Simon). Zsch. f. angew.  
Psychol. (A.) 1911, 5:105-203; (B) 1912, 6:495-537.

(A) A psychological analysis and statistical  
study of the Binet-Simon tests. Over four hun-  
dred cases examined. Criticisms and suggestions.

(B) The author here continues his article, but  
dwells more on the statistics of his experiment.

**Bobertag, O.** Quelques réflexions méthodologiques à  
propos de l'échelle métrique de l'intelligence de  
Binet-Simon. Année psychol. 1912, 18:271-287.

He emphasizes some of the fundamental prin-  
ciples to be kept in mind both in giving the tests  
and in evaluating the results.

**Bobertag, O.** Kurze Anleitung zur Ausführung der In-  
telligenzprüfung nach Binet und Simon. Instit. der  
Gesellsch. f. exper. Psychol. 1913, Nr. 8.

The scale in German.

**Bobertag, O.** Neuere Arbeiten zur Intelligenzprüfung.  
Zsch. f. angew. Psychol. 1913, 8:154-166.

A review and criticism of twenty-four recent  
articles.

**Boehne, G. M.** Regarding Special Classes for Sub-normal  
Children. J. of Psycho-Asthen., 1912, 17: 20-28.

The use of the scale for grading the backward  
and feeble-minded. (Discussion by Goddard.)

**Boulenger, M.** I testi di Binet e Simon applicati a fan-  
ciulli anormali inglesi e belgi. Rivista di psicol.  
1915, 11, 227-234.

**Bridgman, O.** Mental Deficiency and Delinquency. J. of Amer. Med. Assoc., 1913, 61:471-472.

Out of one hundred and eighteen State Training School inmates eighty-nine per cent. were found to be mentally defective.

**Bronner, Augusta F.** A research on the Proportion of Mental Defectives among Delinquents. J. of Crim. Law and Criminol., Vol. V., No. 4, Nov., 1914.

A study of delinquents with interesting and unusual conclusions.

**Bronner, Augusta F.** The Psychology of Special Abilities and Disabilities. Boston: Little, Brown and Co., 1917.

**Bruner, F. G., Barnes, E., Dearborn, W. F.** Report of the Committee on Books and Tests pertaining to the Study of Exceptional and Mentally Deficient Children. Nat. Educ. Assoc. Proc., Denver, Colo., 1909, pp. 901-914.

An outline of the tests.

**Burt, Cyril.** Experimental Tests of General Intelligence. Brit. J. of Psychol., 1909, 3:94-177.

Some of the tests are the same as those used by Binet.

**Burt, Cyril.** Mental Tests. Child Study, 1915, 8:8-13.

**Burt, Cyril.** The Measurement of Intelligence by the Binet Tests. Eugenics Review, April, July, 1914.

**Bush, Arthur Dermot.** Binet Tests of a Thirty-Nine Months' Old Child. Psychol. Clinic, Vol. VII., No. 9, Feb. 15, 1914.

The child tested passed all of the four-year tests and in addition 12 tests in age levels superior to this. The author believes that the Binet standard has been obtained from inferior children and does not represent a fair average.

**Call, A. D.** Dr. Dawson's Inductive Study of School Children. *Psychol. Clinic*, Vol. VI., No. 3, May 15, 1912.

Among others the Binet tests are used for diagnosis.

**Chase, H. W.** Work with the Backward and Sub-Normal in the Children's Institute. *Ped. Sem.*, 1910, 17:189-203.

The question of tests discussed.

**Chotzen, F.** Die Bedeutung der Intelligenzprüfungs-methode von Binet und Simon für die Hilfsschule. *Hilfsschule* 1912, 5: 153-162.

A summary of the results obtained by Bobertag in his use of the Binet tests. The scale valuable because of its ability to give a rapid diagnosis.

**Chotzen, F.** Die Intelligenzprüfungsmethode von Binet-Simon bei schwachsinnigen Kindern. *Zsch. f. angew. Psychol.* 1912, 6: 411-494.

Two hundred and eighty cases, ages seven and a half to fourteen. Tables and curves. A critical review of each test. Sex differences noted. In concluding he insists upon the great value of the scale.

**Claparède, E.** Tests of Development and of Aptitude. Translated from *El Monitor de la Education Comun.*, Buenos Aires, by Prof. C. R. Chapple. *Child Study*, Oct., 1915, Vol. VIII., p. 108.

See original article by Dr. Claparède.

**Claparède, E.** Tests de développement et tests d'aptitudes. Extrait des Archives de Psychologie, Fevrier 1914.

Criticises B. S. tests and makes new suggestions concerning a test scale.

**Cope, Warren W.** Grading Intelligence by Years and Points. *J. Crim. Law and Criminol.*, Vol. VII., No. 3, Sept., 1916.

Comparison of ten versions of the Binet scale, summarizing the advantage of a Point Scale.

**Cords, R.** Die Farbenbenennung als Intelligenzprüfung bei Kindern. *Zsch. f. päd. Psychol.* 1910, 11:311-314.

Confirms the accuracy of the Binet color test.

**Cornell, Arnold E.** Gauging the Minds of the Blind. *Tech. World Mag.*, Apr., 1915, p. 214.

Robert Irwin's revision of the Binet Scale for blind children.

**Cornell, W. S.** Health and Medical Inspection of School Children. Phila.: Davis, 1912.

An exposition of the scale as used by Goddard. Believes that physical defects can retard a child for two or three years.

**Cruchet, R.** Les tests de Binet dans le tout jeune âge. *J. de méd. de Bordeaux*, 1912, 42: 17-32.

The tests for the lower ages are too few.

**Cunningham, K. S.** Binet and Porteus Tests Compared. Examination of One Hundred School Teachers. *J. of Educ. Psychol.*, 1916, 7:552-556.

The Porteus tests are said to be easier than Binet tests and are excellent when used to supplement them.

**D'Allonnes, G. R.** L'affaiblissement intellectuel chez les déments. Paris: Alcan, 1912, pp. 228.

Thirty cases examined. The method employed was similar to that of Binet-Simon in their "Nouvelle théorie de la démence."

**Dana, Charles L.** Mental Tests. *Medical Record*, Jan. 4, 1913.

**Davenport, C. B.** Heredity in Relation to Eugenics.  
New York: Holt, 1911, pp. 65-72.

The inheritance of defective mentality as determined by the scale.

**Decroly, O.** Intelligenzmessungen bei normalen und abnormen Kindern. 2. Kongr. exper. Psychol., Würzburg, 1906, pp. 187-193. Leipzig: Barth, 1907.

A very close correspondence is noticed between the mental age, as found by the Binet scale, and other mental and physical manifestations.

**Decroly, O.** Classifications des enfants irréguliers et en particulier des irréguliers scolaires. 6. Congr. Intern. de psychol., Genève, 1909, pp. 359-393.

The Binet scale is most simple and practical.

**Decroly, O.** L'examen des délinquants juvéniles. 3. Congr. intern. de Neurol. et Psychiat., Bruxelles, 1913.

**Decroly, O., et Boulenger.** Les tests mentaux chez l'enfant. 2. Congr. de Neurol., Bruxelles, 1907.

**Decroly, O., et Degand, J.** Les tests de Binet et Simon pour la mesure de l'intelligence: contribution critique. Archiv. de Psychol. 1906, 6: 27-130.

Most of the cases psychopathic. Each child's reaction noted.

**Decroly, O., et Degand, J.** Le mesure de l'intelligence chez les enfants. 2. contribution critique. La méthode de DeSanctis. Archiv. intern. d'hyg. scolaire. 1904, 4: 230-303.

Twenty-nine cases. Binet and DeSanctis closely compared.

**Decroly, O., et Degand, J.** La mesure de l'intelligence chez des enfants normaux d'après les tests de MM. Binet et Simon. Nouvelle contribution critique. Archiv. de Psychol. 1910, 9: 81-108.

An examination of forty-five normal children, two and a half to three years of age chronologically.

Results, criticisms and conclusions. They suggest eliminating certain tests which are affected by home training or environment, and advocate changing thirty of the sixty-five tests.

**De Sanctis, S.** (a) Types et degrés d'insuffisance mentale. Année psychol. 1906, 12:70-83. (b) Typen und Grade mangelhafter geistiger Entwicklung. Eos 1906, 2:97-115. (c) Tipi e gradi d'insufficienze mentale. Annali di Neurologia. 1906.

Not believing in Binet's 1905 scale, he devises a series of six tests with which to determine the grade of intelligence.

**De Sanctis, S.** Les enfants anormaux. 1. Congr. intern. de Pérol., Bruxelles, 1911.

He recommends the Binet scale, but states that in order to treat the child properly we must not only know the degree of mental defect, but we must also determine his particular mental type.

**De Sanctis, S.** Mental Development and the Measurement of the Level of Intelligence. J. of Educ. Psychol., 1911, 2:498-507.

He finds scale satisfactory for the grading of normal and atypical children.

**De Sanctis, S.** Lo sviluppo psichico e la misura del livello intellettuale. Infanz. anormale. 1912, 6:33-41.

**De Sanctis, S.** Reattivi per la misura dell' insufficienza mentale. Contrib. psicol. 1912, 1:16-.

**De Sanctis, S., e Jeronutti, A.** Applicazione della "Scala metrica intelligenza" di Binet e Simon e dei "Reattivi" di Sante deSanctis. 6. Congr. intern. de psychol., Genève, 1909:775-778.

See Jeronutti. (Discussion by Decroly.)

**Descœudres, A.** Les tests de Binet et Simon et leur valeur scolaire. Archiv. de Psychol. 1911, 11:331-350.

Applied to twenty-four school children. Some conclusions.

**Descœudres, A.** Exploration de quelques tests d'intelligence chez des enfants anormaux et arriérés. Archiv. de Psychol., 1911, 11:351-375.

With the aim of further completing the Binet-Simon scale, Descoedres suggests fifteen tests, six of which are already Binet's. Fourteen backward and feeble-minded cases are tested, aged six to fourteen. The results show a high correlation.

**Descœudres, A.** Les tests de Binet-Simon comme mesure du développement des enfants anormaux. Archiv. de Psychol., 1915, 15:225-254.

Study of the results of Binet tests, analysis of some tests repeated after an interval, and comparison of 1908 and 1911 scales.

**Doll, E. A.** Mental Tests at the Mental Hygiene Congress. Training School, Vol. IX., No. 9, Jan., 1913.

Exhibition testing at the Fourth International Congress on Hygiene and Demography. Twenty-four cases. Results.

**Doll, E. A.** Inexpert Binet Examiners and Their Limitations. J. of Educ. Psychol., 1913, 4:607-609.

Trained assistants in institutions for the feeble-minded are just as much qualified as clinical psychologists to give the Binet test, and sometimes even better. Stern's mental quotient may be misleading unless the results are those of children of the same age.

**Doll, E. A.** Suggestions on the Extension of the Binet-Simon Measuring Scale. 4. Intern. Cong. School Hygiene, Buffalo, Aug., 1913.

Outline of the principles on which an extension of the scale should be founded.

**Doll, E. A.** Note on the Intelligence Quotient. Reprint from Training School Bull., Vol. XIII., No. 2, Apr., 1916.

Data to show that by Goddard's revision of the Binet scale the intelligence quotient is not valid after the tenth year.

**Doll, E. A.** Supplementary Analysis of H. B. Hickman's Study of Delinquents. Training School, Vol. II., No. 9, Jan., 1915.

**Dougherty, M. L.** Report on the Binet-Simon Tests given to four hundred and eighty-three children in the Public Schools of Kansas City, Kansas. J. of Educ. Psychol., 1913, 4: 338-352.

Compared to Goddard's earlier study there are quite a number of variations. Some changes are suggested. Finds the scale valuable.

**Down, R. L.** Nomenclature and Classification. Nat. Conf. Preventn. of Destitutn. London, 1911. London: King, 1911, pp. 555-566.

Six of Binet's tests employed.

**Dresslar, F. B.** School Hygiene. New York: Macmillan, 1913, pp. 302-312.

Advises the use of the scale by the trained teacher.

**Dumville, B.** A Trial of Binet's Tests on Five-year-olds. J. of Exper. Pedag., 1913, 2: 113-118.

The tests from five to eight inclusive were applied to eighty-nine children. The questions seem too easy and as they now stand are unsuitable for accurate diagnosis.

**Editorial.** The Problem of the Feeble-minded among Immigrants. J. Amer. Med. Assoc., 1913, 60: 209-210.

Inspection by experts at the port of entry will result in a much larger percentage of defective immigration being detected.

**Ellis, Frederick W.** Mental Age and Physiological Age in Interpreting the Binet and Simon Age Scale. Ungraded, Vol. 1, No. 2, June, 1915.

**Emerick, E. J.** The Defective Delinquent in Ohio. *J. of Psycho-Asthen.*, 1914, 7: 19-21.

By the Binet tests one half the boys and girls in industrial schools are shown to be sub-normal.

**Eynon, William G.** The Mental Measurement of Four Hundred Juvenile Delinquents by the Binet-Simon System. *N. Y. Med. J.*, Vol. XCVIII., No. 4, Whole No. 1808, July 26th, 1913.

A large proportion of the inmates of the House of Refuge, tested by the Binet scale, were found to be sub-normal.

**Farrell, E. E.** An Analysis of Dr. Goddard's School Inquiry Report on Ungraded Classes. 15. Ann. Rpt. City Supt. Schools, New York City. Bd. of Education, Dec. 10, 1913, pp. 65-79.

Criticism of Goddard's Binet examination.

**Fernald, G. M.** The Use of the Binet-Simon Scale with Delinquent Children. 4. Intern. Congr. School Hyg., Buffalo, 1913.

The examiner meets with a great number of difficulties in applying the tests to children from poor environments.

**Ferrari, G. C.** Come si misura lo sviluppo dell' intelligenza nei bambini normali. *Rivista di psicol.* 1908, 4: 465-471.

The Binet-Simon 1908 scale in Italian.

**Ferrari, G. C.** Les arriérés scolaires. 6. Congr. de psychol., Genève, 1909, pp. 399-422.

The study of mental types has been found valuable by the clinician.

**Forsberg, Hjalmar.** Alfred Binet—en banbrytare inom psykologi och pedagogik. *Svenskt. Arkiv. för Pedagogik*, Band I., 1913, Häfte 1.

**Francia, G., e Ferrari, G. C.** L'esame psicologico sommario dei defienti. *Rivista de psicol.* 1912, 8: 269-288.

A review and criticism of Mlle. Giroud's work.

- Franz, S. I.** Handbook of Mental Examination Methods. J. of Nerv. and Ment. Dis. Publ. Co. 1912, pp. 165. A large number of the Binet tests mentioned.
- Fraser, K.** The Use of the Binet-Simon Tests in Determining the Suitability of a Child for Admission to a Special School. School Hygiene, 1913, 4:77-88. Some very interesting returns from the Summer-ton Special School.
- Freeman, F. N.** Tests. Psychol. Bull. 1912, 9:215-222. A résumé of recent literature.
- Gill, I., and A. R.** The Mental Ability of 100 Inmates of the Columbus (Ohio) Workhouse. J. of Crim. Law and Criminol., Vol. VII., No. 6, Mar., 1917.
- Giese, F.** Die Dreiwortmethode bei Intelligenzprüfungen. Zsch. f. päd. Psychol. 1913, 14: 524-534, 550-555. Very suggestive improvements and corrections. Conclusions.
- Gifford, E. G., and Goddard, H. H.** Defective Children in the Juvenile Court. Training School, Vol. VIII., No. 9, Jan., 1912. Binet tests on one hundred juvenile delinquents. Tabulations and conclusions.
- Giroud, A.** Etude d'un procédé nouveau pour la mesure du niveau intellectuel. Bull. Soc. libre Etude psychol. de l'Enfant. 1911, 11: 156-169. Application of Ferrari's test scheme. Results and conclusions. Suggestive.
- Goddard, H. H.** The Binet and Simon Tests of Intellectual Capacity. Training School, Vol. V., No. 1, Mar., 1908. A brief statement of the Binet 1905 scale.
- Goddard, H. H.** Suggestions for a Prognostical Classification of Mental Defectives. J. of Psycho-Asthen., 1909, 4: 48-54. The suggestion is here made for a classification of mental defectives according to "mental age."

**Goddard, H. H.** A Measuring Scale of Intelligence. Training School, Vol. VI., No. 10, Feb., 1910. Condensed translation of Binet's "Measuring Scale of Intelligence" (1908).

**Goddard, H. H.** Four Hundred Feeble-minded Children Classified by the Binet Method. Ped. Sem., 1910, 17: 387-397. Also J. of Psycho-Asthen., 1910, 15: 17-30.

The remarkable accuracy of the Binet-Simon scale is shown when utilized for industrial classification in the Vineland institution.

**Goddard, H. H.** The Binet-Simon Measuring Scale for Intelligence. Revised. Training School, Vol. VIII., No. 4, June, 1911.

Based on Binet's 1908 and 1911 articles, and also on Vineland's experience in testing two thousand normal children. Now in use there.

**Goddard, H. H.** Two Thousand Normal Children Measured by the Binet Measuring Scale of Intelligence. Ped. Sem., 1911, 18: 232-259. Also Nat. Educ. Assoc. Proc., San Francisco, Cal., July, 1911, pp. 870-878.

Results and conclusions. The scale found wonderfully accurate.

**Goddard, H. H.** The Status of the Binet Tests to Date. 20. Ann. Meetg. Amer. Psychol. Assoc., Dec., 1911.

Remarkable results have already been obtained in different institutions and reformatories with insane and epileptics.

**Goddard, H. H.** Echelle métrique de l'intelligence. Résultats obtenus en Amérique, à Vineland. Année psychol. 1912, 18: 288-326.

(See the Ped. Sem. 1911 article above.)

**Goddard, H. H.** The Responsibility of Children in the Juvenile Court. *J. Crim. Law and Criminol.*, 1912, 3:—.

The Binet test used in the examination of one hundred Juvenile Court cases. Sixty-six per cent. were found feeble-minded.

**Goddard, H. H.** The Feeble-minded Immigrant. Training School, Vol. IX., No. 7, Nov., 1912.

A successful experiment in the detection of mental defect in immigrants by means of the Binet scale.

**Goddard, H. H.** Three Annual Testings of Four Hundred Feeble-minded Children and Five Hundred Normal Children. 21. *Ann. Meetg. Amer. Psychol. Assoc.*, Cleveland, Ohio, 1912-13.

Additional testimony proving the reliability of the scale.

**Goddard, H. H.** Report on Ungraded Classes. Hanus Investigating Comm., New York City, 1913.

The Binet results indicate that there are fifteen thousand feeble-minded children in the New York City public schools. Recommendations.

**Goddard, H. H.** The Binet Tests and the Inexperienced Teacher. Training School, Vol. X., No. 1, Mar., 1913.

The inexperienced teacher may use the tests for the purpose of a rough diagnosis. The results, although not wholly accurate, would still possess sufficient educational significance to be of great value to her.

**Goddard, H. H.** Binet Scale Notes. Training School, Vol. X., No. 3, May, 1913.

**Goddard, H. H.** Standard Method for Giving the Binet Test. Training School, Vol. X., No. 2, Apr., 1913.

An attempt to standardize the experimental procedure.

**Goddard, H. H.** The Improvability of Feeble-minded Children. *J. of Psycho-Asthen.*, 1913, 17: 121-131.

Three annual testings in the Vineland institution of three hundred and forty-six feeble-minded boys and girls, mentally between one and twelve, chronologically between five and forty, showed that a vast majority were making no progress mentally. Conclusions regarding educational treatment.

**Goddard, H. H.** The Demand for Tests of Intelligence. Spring Confr. Exper. Psychologists, Apr. 10-12, 1913.

**Goddard, H. H.** Feeble-mindedness a Source of Prostitution. *Vigilance*, 1913, 26: 3-11.

Based on statistics gained from the application of the scale to large groups of women inmates in reformatories. Conclusions.

**Goddard, H. H.** The Diagnosis of Feeble-mindedness. Meetg. Alienists and Neurol., June 24-27, 1913.

**Goddard, H. H.** The Reliability of the Binet-Simon Measuring Scale of Intelligence. 4. Intern. Congr. on School Hygiene, Buffalo, 1913.

Although people are condemning the scale as imperfect, nevertheless intelligence is being constantly and successfully measured. The application of the doctrine of probability to the results proves the small liability of error.

**Goddard, H. H., and Hill, H. F.** Feeble-mindedness and Criminality. Training School, Vol. VIII., No. 1, Mar., 1911.

Out of fifty-six reformatory girls on probation, fifty-two were found to be feeble-minded.

**Goddard, H. H., and Hill, H. F.** Delinquent Girls Tested by the Binet Scale. Training School, Vol. VIII., No. 4, June, 1911.

(Same as previous article.)

**Goddard, H. H.** School Training of Defective Children. School Efficiency Series. Paul H. Hanus, Ed. Yonkers: World Book Co., 1915.

Recommends examination of all repeaters, over-average pupils and special class pupils by the Binet scale. Describes work of ungraded classes and suggests a solution of the problem of mental deficiency.

**Goddard, H. H.** Feeble-mindedness, Its Causes and Consequences. New York: Macmillan, 1914.

A study of mental defectiveness with conclusions concerning the causes of feeble-mindedness and its relation to certain social problems.

**Goddard, H. H.** The Kallikak Family. New York: Macmillan, 1914.

A study in heredity, showing the descent of mental deficiency.

**Goddard, H. H.** The Criminal Imbecile. New York: Macmillan, 1915.

An analysis of three murder cases in which the Binet tests were admitted in evidence.

**Goddard, H. H.** The Menace of the Feeble-minded. Pediatrics, Vol. XXIII., June, 1911, No. 6.

The importance of the problem and how to deal with it.

**Goddard, H. H.** A Brief Report on Two Cases of Criminal Imbecility. J. of Psycho-Asthen., 1914, 19:31-35.

The Binet tests as court evidence.

**Goddard, H. H.** The Binet Measuring Scale of Intelligence; What it is and how it is to be used. Training School, Vol. II., No. 6, Oct., 1914.

**Grady, W. E.** Measuring Efficiency in Instruction. Psychol. Clinic, Vol. VII., No. 6, Nov. 15, 1913.

To be able to measure the efficiency of instruction one must necessarily determine the physical and mental equipment of each pupil before and after educational treatment.

**Grossmann, M. P. E.** The Study of Individual Children. Plainfield, N. J., Nat. Assoc. Study and Educ. Except. Chldn., 1912.

Binet tests included.

**Haines, Thomas H.** Diagnostic Value of Some Performance Tests. Psychol. Rev., XXII., No. 4, July, 1915.

Preliminary evaluation of 12 supplementary performance tests, tried on 63 subjects between 12 and 18 previously rated by the Binet and Point scales. Shows which tests do and which do not correlate with the scales.

**Haines, Thomas H.** High-Grade Defectives at the Psychopathic Hospital during 1913. Boston Med. and Surg. J., Vol. CLXXI., No. 23, Dec. 3, 1914.

Types of defect treated. Defective delinquents tested and their peculiarities tabulated.

**Haines, Thomas H.** Mental Measurement of the Blind. A Provisional Scale and Data for a Year Scale. Psychol. Mono., Vol. XXI., No. 1.

Yerkes-Bridges Point Scale revised for testing the blind.

**Haines, Thomas H.** Mental Examination of Juvenile Delinquents. Ohio Board of Admin., 1915, 7:1-15.

**Hall, G. Stanley.** Educational Problems. New York, London: Appleton's, 1911. Vol. 2, pp. 82-88.

Binet's 1908 scale. Very valuable suggestions on the subject of supplementary tests.

**Hart, B., and Spearman, C.** General Ability: Its Existence and Nature. Brit. J. of Psychol., 1912, 5: 51-84. Also Ueber die allgemeine geistige Leistungsfähigkeit. 5. Kongr. f. exper. Psychol., Berlin, 1912, —:139-142.

Postulates general and specific factors or abilities underlying intellectual operations.

**Heller, Th.** Grundriss der Heilpädagogik. Leipzig: Engelmann, 1912, pp. 374-377.

Binet's 1905 scale with a discussion of a little of the literature.

**Heymans, G., und Brugmans, H. J. T. W.** Intelligenzprüfungen mit Studierenden. Zsch. angew. Psychol., 1913, 7:317-331.

The use of some of the Binet tests among others.

**Hickman, H. B.** Delinquent and Criminal Boys Tested by the Binet Scale. Training School, Vol. II., No. 9, Jan., 1915.

**Hicks, Vinnie Crandall.** The Value of the Binet-Simon Mental Age Tests for First Grade Entrants. J. of Educ. Psychol., 1915, 6:157-166.

An attempt to discover whether there was any correlation between the tests and the progress of the children during the first year of school. The results of the tests proved to be ahead of the progress usually made.

**Hickson, William J.** The Defective Delinquent. J. of Crim. Law and Criminol., Vol. V., No. 3, Sept., 1914.

The work of the psychopathic laboratory of the Chicago Municipal Court. The Binet Scale used in combination with other tests.

**Hinckley, Alice C.** The Binet Test Applied to Individuals Over Twelve Years of Age. (See Rugg-Ped. Tests). J. of Educ. Psychol., 1915, 6:43-59.

A study based upon 200 cases, 13 years and over, whose mental age was 13 years or under. Some interesting conclusions regarding the Binet tests.

**Hjorth, B. M.** Binet's Intelligensprove i Amerika. Nyt Tidsskr. f. Abnormvaes., 1913, 15:121-125.

A short review of some of Binet's, Kuhlmann's and Goddard's work.

**Hoffman, A.** Vergleichende Intelligenzprüfungen an Vorschülern und Volksschülern. *Zsch. angew. Psychol.* 1913, 8: 102-120.

One hundred and fifty-six subjects. Ages seven, nine and ten. The "Vorschule" children coming from a higher social level tested about one-half year above the "Volksschule" children who come from a lower social level, except at age ten. More must be examined, however, before any such conclusion may be drawn.

**Hogarth, A. H.** Note on a Standard Scale of Intelligence. *School Hyg.*, 1910, 1: 276-279.

The Binet scale, although exceedingly useful, is not yet sufficiently satisfactory.

**Holligworth, L. S.** Sex Differences in Mental Traits. *Psychol. Bull.*, Vol. XIII., No. 10, Oct., 1916.

A very careful analysis of recent contributions to the literature of sex differences.

**Holmes, A.** The Classification of Clinic Cases. *Psychol. Clinic*, Vol. V., No. 2, Apr. 15, 1911.

These three standards should be used as a basis of classification: individual, social, pedagogical. The Binet test is included under the second.

**Holmes, A.** The Conservation of the Child. Phila., London: Lippincott, 1912, pp. 199-226.

Directions explaining the use of the scale.

**Holmes, W. H.** School Organization and the Individual Child. Worcester, Mass.: Davis, 1912, pp. 88-113, 168-172.

An exposition of the scale with Goddard's adaptations. A small review of the literature.

**Huey, E. B.** The Binet Scale for Measuring Intelligence and Retardation. *J. of Educ. Psychol.*, 1910, 1: 435-444.

A translation of the tests and directions for their use. Need of norms.

**Huey, E. B.** Retardation and the Mental Examination of Retarded Children. *J. of Psycho-Asthen.*, 1910, 15: 31-43.

Suggests the use of the tests in order to determine retardation above the level of feeble-mindedness.

**Huey, E. B.** Binet's Scale for Measuring Intelligence. *Volta Rev.*, 1911, 13: 26-30.

Shows how the scale may be applied to the deaf.

**Huey, E. B.** The Present Status of the Binet Scale of Tests for the Measurement of Intelligence. *Psychol. Bull.*, Vol. IX., No. 4, Apr. 15, 1912.

An excellent résumé of the literature.

**Huey, E. B.** Backward and Feeble-minded Children. Baltimore: Warwick and York, 1912, pp. 189-202.

Directions for using the 1911 scale with the added modifications by Goddard. (The other portion of the book consists of case studies, the Binet tests having been applied to each child.)

**Huey, E. B.** A syllabus for the Clinical Examination of Children. Lincoln: State School and Colony, 1912.  
The Binet scale included.

**Informal Conference** on the Binet-Simon Scale: Some Suggestions and Recommendations. *J. of Educ. Psychol.*, 1914, 5:95-100.

Recommendations for uniformity of procedure in the administration of the tests.

**Ioteyko, I.** Revue Générale des Travaux récents sur l'Enfance anormale. *Rev. psychol.*, 1909, 2:238-248.

A summary of articles.

**Irwin, Elisabeth A.** A Study of the Feeble-minded in a West Side School in New York City. *Training School Bull.*, Vol. X., No. 5, Sept., 1913.

Two hundred and one cases. Sixteen per cent. mentally defective. A very interesting contribution.

**Irwin, Elisabeth A.** Tests and Methods of Testing. Training School Bull., Vol. XIII., No. 5, Sept., 1916.

Importance of having objective standardized tests given by a trained psychologist. Describes practical training necessary for a clinical psychologist and the value of scientific methods of testing.

**Irwin, Elisabeth A.** Truancy: A Study of the Mental, Physical and Social Factors of the Problem of Non-Attendance at School. Pub. Educ. Assoc. of the City of New York, June, 1915.

**Jaederholm, G. A.** Undersökningar över Intelligensmätningarnas Teori och Praxis. Förlag, Albert Bonniers, Stockholm, Vols. I. and II., 1914.

Research on the theory and practice of the intelligence measurements. One of the most complete studies of psychological testing.

**Jennings, H. M., and Hallock, A. L.** Binet-Simon Tests at the George Junior Republic. J. of Educ. Psychol., 1913, 4: 471-475.

Twenty boys were tested. Three were morons and four others probably so. Six girls were tested. Two were morons and two others probably so. The mental quotient is of dubious value. More questions needed beyond twelve years. Only experts should apply the scale.

**Jeronutti, A.** Applicazione della "Scala metrica dell'intelligenza" di Binet e Simon, e dei "reattivi" di Sante deSanctis, per l'accertamento del grado dell'intelligenza nei fanciulli normale e del grado d'insufficienza mentale nei fanciulli anomalie deficitari Esperienze, comparazionie critiche. Rivista Pedagog. 1909, 3: 263-281.

Tested one hundred and forty-four children, boys and girls between the ages of three to fourteen. A large number of the tests appear too easy for the Rome children. Also tested twenty-four feeble-minded children.

**Jeronutti, A.** 1. Congr. intern. de Pédol., Bruxelles, 1911.

**Jeronutti, A.** Ricerche psicologiche sperimentalì sugli alunni molto intelligenti. Lab. di Psicol. Sperim. della Reg. Univ. Roma, 1912.

Out of fifteen hundred school and kindergarten children, ages five to twelve, fourteen were selected by the teachers as the brightest. The Binet test showed them to be from one to three years in advance of their chronological ages.

**Johnson, Alexander.** The Blind Feeble-minded. (Consultation.) Training School, Vol. II., No. 3, May, 1914.

**Johnson, R. H., and Gregg, J. McI.** Three New Psychometric Tests. Ped. Sem., 1912, 19: 201-203.

An attempt to extend the scale into adolescence.

**Johnston, K. L.** M. Binet's Method for the Measuring of Intelligence. School Wld., 1910, 12: 391-. Also Rep. Brit. Assoc. Adv. Sci., 1910, 80: 806-808.

Tested two hundred and eighteen girls, ages six to sixteen. Suggests certain revisions.

**Johnston, K. L.** M. Binet's Method for the Measurement of Intelligence. Some Results. J. Exper. Pedag., 1911, 1: 24-31.

Results of tests on two hundred school children in Sheffield, England, explained.

**Johnston, K. L.** The Measurement of Intelligence. Binet-Simon Tests. J. Exper. Pedag., 1911, 1: 148-151.

Explanation of the difference between the 1905 and 1908 scales.

**Katzenellenbogen, E. W.** A Critical Essay on Mental Tests in Their Relation to Epilepsy. *Epilepsia*, 1913, 4: 130-173.

Many objections offered to the scale and Wallin's work on epileptics criticised.

**Keller, Chr.** Atter Binet's Forstandsprover. *Nyt Tydsskr. f. Abnormvaes*. 1911, 13: 289-298. (See also 1909, 11: 1-7; 1910, 12: 42-44, 89-100, 132-144, 316.)

Review of Binet's 1911 revision, and Goddard's additions.

**Kelley, Truman L.** Further Logical Aspects of the Binet Scale. *Psychol. Rev.*, XXIII., No. 5, Sept., 1916.

A discussion and criticism of "Logical Aspects of the Binet Scale" by Arthur S. Otis. Gives further suggestions for standardization procedure.

**Kellor, Eleanor.** Need for Correlation of Binet-Simon Tests With Other Tests of Doing. *Psychol. Clinic*, Vol. IX., No. 1, Mar. 15, 1915.

Gives the usual criticism of the scale for upper and lower ranges and neuropathic cases. Says performance tests are needed in the scale.

**Kirkpatrick, E. A.** The Binet Tests and Mental Ability. *J. of Educ. Psychol.*, 1912, 3: 337.

Each test determines maturity and not so much potent mental ability. Argues against further extending the number of tests per age.

**Kite, E. S.** Mental Defect as Found by the Field Worker. *J. of Psycho-Asthen.*, 1913, 17: 145-154.

Interesting applications of the Binet scale in studying the heredity of feeble-mindedness.

**Kite, E. S.** The "Pineys." Survey, 1913, 31: 7-13, 38-40.

Showing how a field worker in heredity gets excellent results without making the technique of testing at all formal or apparent.

**Knight, C. P.** The Detection of the Mentally Defective Among Immigrants. J. Amer. Med. Assoc., 1913, 60: 106-107.

The problem. Difficulty of solution. Method of examination.

**Knollin, H. E., and Terman, Lewis M.** Some Problems Relating to the Detection of Borderline Cases of Mental Deficiency. J. of Psycho-Asthen., 1915, 20:3-16.

Stanford revision used with borderline cases of four to six years and adults. Results compared with results of Goddard and Binet.

**Knox, H. A.** The Moron and the Study of Alien Defectives. J. Amer. Med. Assoc., 1913, 60: 105-106.

The detection of morons one of our immigration problems.

**Kohs, S. C.** The Binet Test and the Training of Teachers. Training School Bull., Vol. X., No. 8, Dec., 1913.

Experience seems to show that school teachers untrained in clinical psychology can be taught to apply the tests and get accurate results.

**Kohs, S. C.** The Binet Test and the Training of Teachers. Child Study, 1914, 7: 30-33.

**Kohs, S. C.** Practicability of the Binet Scale and the Question of the Borderline Case. Pub. of the Research Dept., Chicago House of Correction, Nov., 1915; also Training School Bull., Vol. XII., No. 9, Jan., 1916.

A study of 335 cases between 17 and 27 years of age. Gives typical cases showing how far the Binet tests prove adequate and what supplementary tests may be valuable.

**Kohs, S. C.** The Borderlines of Mental Deficiency. J. of Psycho-Asthen., Mar. and June, 1916, pp. 88-103.

The question of borderlinity in relation to other problems of mental defect.

**Kohs, S. C.** The Stanford (1915) and the Vineland (1911) Revision of the Binet Scale. *Psychol. Rev.*, Vol. XXIV., No. 2, Mar., 1917.

**Kohs, S. C.** The Intelligence Quotient and Borderliney. *J. of Delinquency*, Vol. II., No. 1, Jan., 1917.

**Kramer, F.** Die Intelligenzprüfung bei kriminellen und psychopathischen Kindern. 1. deut. Kongr. f. Jugendbdg. u. Jugendkde. Dresden, 1911. Also Leipzig: Teubner, Arbeiten des Bundes für Schulreform. 1911, pp. 28- .

Results and suggestions.

**Kuhlmann, F.** Binet and Simon's System for Measuring the Intelligence of Children. *J. of Psycho-Asthen.*, 1911, 15: 79-92.

A translation of the 1908 scale with comments on each test. After examining over thirteen hundred cases, he finds this method of great value and service.

**Kuhlmann, F.** A Reply to Dr. L. P. Ayres' Criticism of the Binet and Simon System for Measuring the Intelligence of Children. *J. of Psycho-Asthen.*, 1911, 16: 58-67.

Many of the Ayres criticisms are shown to be absolutely unfounded.

**Kuhlmann, F.** The Present Status of the Binet and Simon Tests of the Intelligence of Children. *J. of Psycho-Asthen.*, 1912, 16: 113-139.

A general review of the work done in France, Germany and America.

**Kuhlmann, F.** A Revision of the Binet-Simon System for Measuring the Intelligence of Children. Faribault, Minn.: *J. of Psycho-Asthen.* No. 1 Monogr. Suppl. 1912, pp. 41.

**Kuhlmann, F.** The Results of Grading Thirteen Hundred Feeble-minded Children with the Binet-Simon Tests. *J. of Educ. Psychol.*, 1913, 4: 261-268.  
Some revisions suggested.

**Kuhlmann, F.** Degree of Mental Deficiency in Children as Expressed by the Relation of Age to Mental Age. 4. Intern. Congr. School Hyg., Buffalo, 1913. Also *J. of Psycho-Asthene*, 1913, 17: 132-144.

The difference between mental age and chronological age does not represent the true degree of deficiency. The "rate of mental progress" is chosen as much more representative.

**Külpe, O.** Psychologie und Medizin. *Zsch. f. Pathopsychol.* 1912, 1: 187-267.

Does not believe that there is much comparative value in "mental age." Thinks Binet exaggerated the value of the scale. It is not a true psychological experiment because it lacks the aid of introspection.

**Lapie, P.** Avancés et retardés. *Année psychol.* 1912, 18: 233-270.

Among others, a few of the Binet tests were given to twenty-three boys and one girl, some being advanced and some retarded. Emphasizes the need for conserving the physical and mental vigor of the child.

**Lawrence, I.** A Study of the Binet Definition Tests. *Psychol. Clinic*, Vol. V., No. 7, Dec. 15, 1911.

Tested seven hundred and eighty-four Minnesota school children, using only four of the regular series. Suggests changing the scale at both ends.

**Ley, A.** Les enfants anormaux. *Année psychol.*, 1912, 18: 503-519. Also *L'Enfance Anorm.*, 1913, 7: 37-52.

A review of the recent studies on the value of the scale.

**Lipmann, O.** The Examination of Intelligence in Children. School World, 1910, 12: 366-369. Also Rep. Brit. Assoc. Adv. Sci., 1910, 80: 802-804.

The frequency and distribution of the results obtained through the use of the Binet test compared with the curves based on McDougall's and Boerberg's experiments and also the Galtonian curve. A striking similarity is shown.

**McDonald, A.** Bibliography of Exceptional Children and Their Education. Washington: U. S. Bur. Educ. Bull. 32, 1913.

A valuable pamphlet. Some of the articles on the scale included in the references.

**McDonald, J. B.** The Binet Tests in a Hospital for the Insane. Training School, Vol. VII., No. 5, Sept., 1910.

The unity and interrelationship of mental phenomena demonstrated by the use of the method on demented.

**Martin, A. L.** Experiments with Binet-Simon Tests upon African Colored Children, Chiefly Kaffirs. Training School Bull., Vol. XII., No. 5, Sept., 1915.

Report of tests given in South Africa by Dr. Loades in 1913. Those above the seventh year were not satisfactory and many had to be omitted. Dr. Loades says "they suggest the existence of a particular present type of mind."

**Martindale, W. C.** How Detroit Cares for Her Backward Children. Psychol. Clinic, Vol. VI, No. 5, Oct. 15, 1912.

The Binet scale used for diagnostic purposes.

**Melville, Norbert J.** Testing Juvenile Mentality. Philadelphia: Lippincott, 1917.

**Mentality Tests:**—A Symposium. J. of Educ. Psychol., 1916, 7:229-240; 278-276; 348-360.

A discussion of some of the fundamental problems of mentality testing.

**Meumann, E.** Intelligenzprüfungen an Kindern der Volks-schule. Exper. Pädog. 1905, 1: 35-101.

An excellent outline of the development up to 1905 of tests for intelligence.

**Meumann, E.** Der gegenwärtige Stand der Methodik der Intelligenzprüfungen (mit besonderer Rücksicht auf die Kinderpsychologie). Zsch. f. exper. Päd. 1910, 11: 68-79.

A discussion of tests for (1) psychiatrist, (2) psychologist and (3) teacher. Each field requires its own characteristic system.

**Meumann, E.** Experimentelle Pädagogik und Schulre-form. Zsch. f. Päd. Psychol., 1911, 12: 1-13.

The problem of measuring intelligence is very important for experimental pedagogy.

**Meumann, E.** Ueber eine neue Methode der Intelligenz-prüfung und über den Wert der Kombinations-methoden. Zsch. f. päd. Psychol. 1912, 13: 145-163. Also 1. deut. Kongr. f. Jugendbldg. u. Jugenknde., Dresden, 1911.

A series of words varying in number and in degree of relation are used in constructing a sentence or a story. The types of response are different, depending on individual mental ability.

**Meumann, E.** Anleitung zu praktischen Arbeiten in der Jugendkunde und experimentellen Pädagogik. Zsch. f. päd. Psychol. 1912, 13: 623-638.

A short history of the scale and a review of the criticisms.

**Meumann, E.** Sammelreferat über die Literatur der Jugendkunde. Archiv. f. d. ges. Psychol. 1912, 25: (Literaturbericht) 85-164.

(See note to Vorlesungen.)

**Meumann, E.** Vorlesungen. Leipzig: Engelmann, 1913.  
Zehnte Vorlesung, pp. 94-299.

An excellent summary and criticism of all that has so far been done along the line of tests for measuring intelligence.

**Meumann, E.** Die soziale Bedeutung der Intelligenzprüfungen. Zsch. f. päd. Psychol., 1913, 14: 433-440.

Results seem to show that children of well-to-do parents test higher than the children of poorer parents. We need a new series which will measure native capacity.

**Monroe, W. S.** The Intelligence of Six Hundred Young Children. 21. Ann. Meetg. Amer. Psychol. Assoc., Cleveland, O., 1912-13.

The results obtained from color test compared with those of the Binet test. The latter very accurate and sex differences less marked.

**Morlé, M.** L'influence de l'état social sur le degré de l'intelligence des enfants. Bull. Soc. libre Educ. psychol. de l'Enfant, 1911, 12: 8-15.

The Binet returns on poor children (40) are compared with those of children situated in better circumstances (40). He finds a difference in favor of the latter increasing with age. The tests were between the ages seven and ten.

**Morrow, L., and Bridgman, O.** Delinquent Girls Tested by the Binet Scale. Training School, Vol. IX., No. 3, May, 1912.

Forty out of sixty girls were found to be feeble-minded.

**Morse, J.** A Comparison of White and Colored Children Measured by the Binet Scale of Intelligence. 8. Ann. Meetg. Southn. Soc. of Philos. and Psychol., Baltimore, Md., 1913. Also Pop. Sci. Mon., 1914, 84: 75-79.

(See A. C. Strong.)

**Murtfield, —.** Material zur Prüfung von Schulkindern um geistige Defekte festzustellen. Hilfsschule, 1912, 5:— —.

**Myers, C. S.** The Pitfalls of "Mental Tests." Rep. Brit. Assoc. Adv. Sci., 1910, pp. 808-809. Also Brit. Med. J., 1911, 1: 195-197. Also Zsch. f. angew. Psychol. 1912, 6: 60-65.

Warns against deducing conclusions from a "hodge-podge" of statistics. There are racial differences in correlations. The scale is faulty because it lacks the element of introspection. The treatment of data "en masse" is liable to blur the real facts.

**Newmayer, S. W.** Medical and Sanitary Inspection of Schools. Phila., New York: Lea and Febiger, 1913, pp. 262-295.

An excellent statement of the tests as now used in Vineland.

**Otis, Arthur S.** Some Logical Aspects of the Binet Scale, I. Psychol. Rev., Vol. XXIII., No. 2, Mar., 1916.  
(See Part II.)

**Otis, Arthur S.** Some Logical Aspects of the Binet Scale, II. Psychol. Rev., Vol. XXIII., No. 3, May, 1916.

Develops a definite theoretical procedure for standardizing and using the Binet tests.

**Otis, M.** Another Laboratory of Research in Delinquency. Survey, 1913, 31: 160-161.

One hundred and seventy-two reformatory girls examined. Seventy-five per cent. were found defective.

**Otis, M.** The Binet Tests Applied to Delinquent Girls. Psychol. Clinic, Vol. VI., No. 5, Oct. 15, 1913.

Nearly two hundred cases. Ages ten to twenty. The scale is very valuable, but does not reveal the complete condition of the delinquent.

**Paterson, D. G., and Pintner, Rudolph.** The Binet Scale and the Deaf Child. *J. of Educ. Psychol.*, 1915, 4:201-210.

An attempt to use Goddard's revision of the Binet scale to test deaf children. It was found unsatisfactory and a suggestion made for an adaptation of the scale introducing performance tests.

**Peterson, Anna M., and Doll, E. A.** Sensory Discrimination in Normal and Feeble-Minded Children, Parts I. and II. *Training School Bull.*, Vol. XI, Nos. 7 and 8., Nov. and Dec., 1914.

**Phillips, B. A.** The Binet Tests Applied to Colored Children. *Psychol. Clinic*, Vol. VIII., No. 7, Dec. 15, 1914.

According to this experiment retardation is greater and acceleration is less among colored than among white children.

**Pintner, Rudolph, and Paterson, D. G.** The Factor of Experience in Intelligence Testing. *Psychol. Clinic*, Vol. IX, No. 2, Apr. 15, 1915.

Shows how the effect of experience in testing varies according to the test used.

**Pintner, Rudolph, and Paterson, D. G.** Psychological Basis for Diagnosis of Feeble-mindedness. *J. of Crim. Law and Criminol.*, Vol. VII., No. 1, May, 1916.

Gives tables compiled in an effort to increase the diagnostic value of the Binet-Simon and Yerkes-Bridges scales.

**Porter, Frances.** Difficulties in Interpretation of Mental Tests. Reprint, *Psychol. Clinic*, Vol. IX., No. 5, Oct. 15, 1915; also Part 2, Vol. IX., No. 6, Nov. 15, 1915.

Summaries of case studies. Emphasizes difference in individual reactions to the same tests at different times and the frequent irregularity of the results of tests.

**Potts, W. A.** Tests of Intelligence. Brit. Med. J., 1912, 1: 880-883.

"The attitude of a patient towards a mental test and his behavior during and after the execution of it are frequently of more importance for diagnostic purposes than the fact whether he did it correctly or not."

**Potts, W. A.** What Tests in Childhood are Best Calculated to Throw Light Upon the Capacities of Mental Defectives for Future Work? Lancet, July 17, 1915, No. 4794, Vol. CLXXXIX.

The Binet tests alone are not sufficient to determine the earning capacities of defectives.

**Pyle, W. H.** A Suggestion for the Improvement and Extension of Mental Tests. J. of Educ. Psychol., 1912, 3: 95-96.

Urges a more extensive testing of the different mental capacities. Advises a wider use of the scale.

**Pyle, W. H.** Standards of Mental Efficiency. J. of Educ. Psychol., 1913, 4: 61-70.

Suggests the extension of mental tests so that they will be valuable not only for the feeble-minded and backward, but also for the normal and super-normal.

**Pyle, W. H.** The Mind of the Negro Child. School and Society, 1915, 1: 357-360.

**Raecke, J.** Grundriss der psychiatrischen Diagnostik. Berlin: Hirschwald, 1912, pp. 110-118.

Suggests use of the scale.

**Renz, Emilie.** A Study of the Intelligence of Delinquents. Training School, Vol. II., No. 3, May, 1914.

**Robinovitch, J.** Alienés et anormaux. Paris: Alcan, 1910.

**Rogers, A. L.** Application of the Binet-Simon Tests to Normal Children in Scotland. Rep. Brit. Assoc. Adv. Sci., 1913.

Although the scale is too easy at the lower end and too difficult at the upper end, nevertheless it is sufficiently reliable.

**Rogers, A. L., and McIntyre, J. L.** Measurement of Intelligence in Children by Binet-Simon Scale. Reprint from Brit. J. of Psychol., Vol. VII., Part 3, Oct., 1914.

The theory, form and results of the scale used with French, German, American and Scottish children, with a particular study of some individual tests. The authors conclude that certain changes and additions are necessary to make the scales suitable for testing Scottish children.

**Rogers, M.** A Case from the Indiana University Clinic. Psychol. Clinic, Vol. VI., No. 5, Oct. 15, 1912.

Interesting reactions of a defective child to the scale.

**Rossolimo, G.** Die psychologischen Profile. Zur Methodik der quantitativen Untersuchung der psychischen Vorgänge in normalen und pathologischen Fällen. Eine experimentell psychologische Skizze. Klinik für psychische und nervöse Krankheiten, Halle, Band VI., Heft 3 u. 4, 1911; Band VII., Heft 1, 1912.

Explanation of the psycho-diagnostic method. An attempt to represent graphically and quantitatively the simple and complex mental processes. Some of the Binet tests used.

**Roussel, S., et Binet, A.** (Correspondence.) Bull. Soc. Libre Etude psychol. de l'Enfant. 1910, 10: 89-92.

An attempt to classify the different tests according to the predominating mental element, viz.: four

to eight years, sensation; eight to thirteen, reason, interest in causality; thirteen and over, personality and will.

**Rowe, E. C.** Five Hundred and Forty-seven White and Two Hundred and Sixty-eight Indian Children Tested by the Binet-Simon Tests. *Ped. Sem.*, 1914, 21:454-459.

Comparison of results of tests with 1908 and 1911 editions of Binet Scale, also of results with white and Indian children, to show that the type of education suited to one group is not suited to the other.

**Saffiotti, F. U.** Résumé des résultats d'un contrôle à l'échelle métrique de l'intelligence de Binet et Simon suivant la méthode Trèves-Saffiotti. 1. *Congr. intern. de Pédol.*, Bruxelles, 1911.

Six hundred and sixty-six subjects. Criticisms and suggestions.

**Saffiotti, F. U.** L'Examen psychologique des écoliers et les problèmes de psychologie pédagogique normale et anormale. Milan: Civelli, 1911.

**Saffiotti, F. U.** L'échelle métrique de l'intelligence modifiée selon la méthode Trèves-Saffiotti. *Année psychol.* 1912, 18: 327-340.

Suggests the need of a new method for evaluating and classifying results.

**Saffiotti, F. U.** Die Erziehung der Abnormen in Italien. *Eos*, 1913, 9:34-44.

The plan of work in Italy, including the use of the scale. The results of nearly one thousand testings confirm him in the belief that the scale does not measure intelligence.

**Saffiotti, F. U.** La misura dell'intelligenza. Review of above and articles by Saffiotti and Trèves. *Eugenics Rev.*, Jan., 1917.

**Sandiford, P.** The Mental and Physical Life of School Children. London, New York: Longmans, Green Co. 1913.

The Binet scale is described in the chapter on "Exceptional School Children."

**Sarteschi, U.** Ricerche di Psicologia individuale nei dementi. Rivista di psicol., 1910, 6:441-488.  
(See Baroncini.)

**Schereschewsky, J. W.** School Hygiene. Washington, D. C.: U. S. Pub. Health Serv. Pub. Health Repts. 1913, 28: 2031-2035.

Report of the symposium held on the Binet scale at the Fourth International Congress on School Hygiene at Buffalo, New York.

**Schmitt, C.** The Binet-Simon Tests of Mental Ability. Discussion and Criticism. Ped. Sem., 1912, 19: 186-200.

The shortcomings and the value of the scale explained.

**Schmidt, Clara.** Standardization of Tests for Defective Children. Psychol. Mono., Vol. XIX., No. 3, Whole No. 83, July, 1915.

Includes an account of the historical development of general intelligence tests, description and criticism of Binet-Simon scale and a discussion and summary of the standardization of the Healy-Fernald tests.

**Schreuder, P. H.** Yets over Verstandsmetingen. Pädagog. Tydsskr., 1911, 3: — —.

Finds that the results obtained from the application of the tests on large numbers of children conform with the binomial curve of Quetelet and the curve of Gauss.

**Schubert, A.** Versuch einer Anwendung der Methode von Binet auf die Erforschung der russischen defektiven

Kindern. (Original in Russian: 1. Russ. Congr. Exper. Pedag., 1910.) Also Archiv. f. d. gesamt. Psychol., 1913, 26: — —. Transl. H. Reybekiel.

Tested two hundred and twenty-nine children, aged three to nineteen. Found a large number of tests too hard.

**Seashore, C. E.** The Binet-Simon Tests. J. of Educ. Psychol., 1912, 3: 50.

Suggests the addition of more tests in order more completely to judge and know the child at each age level.

**Seifert, H. A.** Binet und seine Intelligenzprüfungen. Kathol. Schulzg. f. Norddeutschld., 29: — —.

**Sherlock, E. B.** Intelligence Tests for the Feeble-minded Child, 1911, 1: 791-795.

A discussion of the different methods.

**Shrubsall, F. C.** The Examination of Mentally Defective Children. School Hyg., 1911, 2: 564-576, 609-619.

A description of the different tests, including those of Binet.

**Simon, Th.** The Measurement of Intelligence. Eugenics Rev., Jan., 1915.

**Skinner, Charles E.** Point Scale Ratings of Ninety-three Dependent Children. Psychol. Clinic, Vol. X., No. 6, Nov. 15, 1916.

Tests given to children in a country home for orphans.

**Smith, M. Hamblin.** The Binet-Simon Method and the Intelligence of Adult Prisoners. Lancet, July 17, 1915, No. 4794, Vol. CLXXXIX.

An experiment in testing adult prisoners. Concludes that the Binet scale is a valuable means of estimating intelligence, but should be modified for adults.

**Squire, C. R.** Graded Mental Tests. *J. of Educ. Psychol.*, 1912, 3:363-380, 430-443, 493-506.

The Binet tests having been found defective, a new series is suggested. A number of the tests are used again.

**Squire, C. R.** Some Requirements of Graded Mental Tests. *4. Intern. Congr. School Hyg.*, Buffalo, 1913.

A scale for the measurement of intelligence must necessarily contain serial tests of different mental capacities. In this the Binet scale fails.

**Stenquist, J. L., Thorndike, E. L., and Trabue, M. R.**

The Intellectual Status of Children who are Public Charges. *Archiv. of Psychol.*, R. S. Woodworth, Ed., No. 33, Sept., 1915. New York: The Science Press.

265 children tested by several kinds of tests, including the Binet scale, the Stenquist mechanical ability tests, the Trabue completion test and the Thorndike reading test.

**Stern, W.** Die differentielle Psychologie in ihren methodischen Grundlagen. Leipzig: Barth, 1911, Kapitel 6.

A short history of the development of intelligence tests. A critical review of test literature.

**Stern, W.** Fragestellungen, Methoden und Ergebnisse der Intelligenzprüfung. 1. deut. Kongr. f. Jugendbldg. u. Jugendkde., Dresden, 1911.

Pedagogy now demands a better understanding of the psychological nature of each individual child. Discussion of tests of intelligence and related problems.

**Stern, W.** Ueber die psychologischen Methoden der Intelligenzprüfung und deren Anwendung an Schulkindern. 5. Kongr. f. exper. Psychol., Berlin, 1912, pp. 1-109. Also Leipzig: Barth, 1912, pp. 1-109.

An excellent discussion of the scale. An examination is made for the scientific basis of the different tests. Some are found defective. Nevertheless, judging by the returns from different countries, it appears that the scale is a valuable instrument.

**Stern, W.** Zum Vergleich von Vorschülern und Volkschülern. *Zsch. angew. Psychol.* 1913, 8: 120-123.

See A. Hoffman. Emphasizes the significance of his results from the point of view of school promotion.

**Stern, W.** The Psychological Methods of Testing Intelligence. Transl. by G. M. Whipple. Baltimore: Warwick and York; 1914.

A survey of psychological test literature previous to 1912.

**Stransky, E.** Bemerkungen zur Intelligenzprüfung. Wien. Med. Wochenschr. 1909, 59: 249, 327, 375.

**Strong, A. C.** Three Hundred and Fifty White and Colored Children Measured by the Binet-Simon Measuring Scale of Intelligence: A Comparative Study. 4. Intern. Congr. School Hyg., Buffalo, 1913. (Reptd. by Dr. J. Morse.) Also Ped. Sem., 1913, 20: 485-515.

Two hundred and twenty-five white and one hundred and twenty-five colored children were tested. The distribution curve of the whites corresponds to that found by Goddard in his earlier study, but for the colored it is inferior. In the mill villages, however, this difference is but slight. The scale ought to be revised.

**Sullivan, W. C.** La mesure du développement intellectuel chez les jeunes délinquantes. Année psychol., 1912, 18: 341-361.

The search for the explanation of the anti-social tendencies of delinquents leads us into the affective and not the intellectual sphere.

**Sullivan, W. C.** Feeble-mindedness and the Measurement of the Intelligence by the Method of Binet and Simon. Lancet, 1912, 182:770-780.

**Taylor, Nina G. R.** Further Data Towards the Study of the Binet-Simon Scale. J. of Exper. Pedag., Vol. III., No. 4, Mar. 4, 1916.

An experiment carried on in the working class quarter of Sheffield, England. Compared with Miss Rogers' and Mr. McIntyre's experiment in Scotland. Discussion and criticism of the tests and correlation between teachers' ranking and test results.

**Terman, L. M.** Genius and Stupidity. Ped. Sem., 1906, 13:307-373.

Binet's memory test.

**Terman, L. M.** The Binet-Simon Scale for Measuring Intelligence; Impressions Gained by Its Application on Four Hundred Non-selected Children. Psychol. Clinic, Vol. V., No. 7, Dec. 15, 1911, and Vol. V., No. 8, Jan. 15, 1912.

The scale needs correction at both ends. Insists on correlation of mental age with physiological and not chronological age.

**Terman, L. M.** A Survey of Mentally Defective Children in the Schools of San Luis Obispo, Cal. Psychol. Clinic, Vol. VI., No. 5, Oct. 15, 1912.

The scale is very useful in giving one comparable standards of mental ability.

**Terman, L. M.** Psychological Principles underlying the Binet-Simon Scale and Some Practical Considerations for Its Correct Use. 4. Intern. Congr. School Hyg., Buffalo, 1913.

The value of the scale. Errors to be avoided.

**Terman, L. M.** Suggestions for Revising, Extending and Supplementing the Binet Intelligence Tests. 4. Intern. Congr. School Hyg., Buffalo, 1913.

Very suggestive.

**Terman, L. M.** The Significance of Intelligence Tests for Mental Hygiene. 4. Intern. Congr. School Hyg., Buffalo, 1913.

Mental hygiene and mental diagnosis are very intimately related.

**Terman, L. M.** A Report of the Buffalo Conference on the Binet-Simon Tests of Intelligence. Ped. Sem., 1913, 20: 549-554.

A brief abstract of the papers presented.

**Terman, L. M., and Childs, H. G.** A Tentative Revision and Extension of the Binet-Simon Measuring Scale of Intelligence. J. of Educ. Psychol., 1912, 3: 61-74, 133-143, 198-208, 277-289.

Results and conclusions after examining three hundred and ninety-six California school children. Believe that the scale is too easy at the lower end and too difficult at the upper.

**Terman, L. M.** Review of the Vineland Translation of Articles by Binet and Simon. J. of Delinquency, Nov., 1916, Vol. I., p. 256.

Clear analysis and résumé of Miss Kite's translation of "The Development of Intelligence in Children" and "The Intelligence of the Feeble-minded."

**Terman, L. M.** Mental Hygiene of Exceptional Children. Ped. Sem., 1915, 22: 529-537.

Study of the school success of 1000 children in relation to their intelligence measured by the Stanford revision.

**Terman, L. M.** The Binet Scale and the Diagnosis of Feeble-mindedness. J. of Crim. Law and Criminol., Vol. VII., No. 4, Nov., 1916.

**Terman, L. M.** Measurement of the Intelligence. New York: Houghton, Mifflin Co., 1916.

The development of the Binet scale, criticism of the 1911 revision and exposition of the Stanford revision.

**Terman, L. M.** The Hygiene of the School Child. New York: Houghton, Mifflin Co., 1914.

A text-book emphasizing the physical basis of education and the importance of preventive mental hygiene.

**Terman, L. M.** Research in Mental Deviation Among Children. Research Lab., Buckel Foundation, Stanford Univ., 1915, 2, 1-15.

**Terman, L. M.** The Intelligence Quotient of Francis Galton in Childhood. Amer. J. of Psychol., Apr. 1917.

**Thorndike, Edward L.** Significance of the Binet-Simon Tests. Psychol. Clinic, Vol. X., No. 5, Oct. 15, 1916.

Correlations of Binet tests with completion, construction and reading tests.

**Town, C. H.** The Binet-Simon Intelligence Tests in Their Application to Defectives. Illinois Med. J., 1912, 22:166-177.

**Town, C. H.** The Binet-Simon Scale and the Psychologist. Psychol. Clinic, Vol. V., No. 8, Jan. 15, 1912.

Points out the danger in the use of the scale by the inexperienced and those untrained in experimental psychology.

**Town, C. H. (Translator), Binet, A. and Simon, Th.** A Method of Measuring the Development of the Intelligence of Young Children. Lincoln, Ill.: Courier, 1913, pp. — —.

A very serviceable little handbook.

**Trabue, M. R., Melville, N. J. and Woolley, H. T.**—Further Suggestions Regarding Mentality Tests. J. of Educ. Psychol., 1916, 7:427-433.

Additional contributions to the symposium on mentality tests.

**Travis, A.** Reproduction of Short Prose Passages: A Study of Two Binet Tests. *Psychol. Clinic*, Vol. IX., No. 7, Dec. 15, 1915.

A study made with college students, of the reproduction of the thought of prose passages presented verbally. The conclusions were negative and the tests not considered satisfactory.

**Trèves, Z. e Saffiotti, F. U.** La Escala metrica de la Inteligencia de Binet y Simon. *Boletin d. l. Instruccion Publica*, Buenos Aires, 1910, 7: Spanish translation of "La scala metrica, etc." below.

**Trèves, Z. e Saffiotti, F. U.** La "Scala metrica dell' intelligenza" di Binet e Simon. *Espositione e critica*. Milan: Civelli, 1910-1911. Part I and II.

Part I. General Suggestions and criticism.

Part II. The 1908 scale.

**Trèves, Z. e Saffiotti, F. U.** Prove mentali per la graduazione dell' intelligenza nella popolazione scolastica elementare. Paravia, Milan. 1913.

**Vaney, V.** Un Surnormal. *Bull. Soc. libre Etude psychol. de l'Enfant*. 1910, 10:160-165.

Examined by the Binet Scale, a boy of eight tested twelve.

**Vaney, V.** Les classes pour enfants arriérés. *Bull. Soc. libre Etude psychol. de l'Enfant*, 1911, 11:81-82.

The tests used for diagnosing backwardness.

**Vaney, V.** L'Examen des candidats aux classes de perfectionnement. *Bull. Soc. libre Etude psychol. de l'Enfant*, 1912, 12:134-144.

The scale is used in selecting candidates for special classes. Very valuable.

**Vaney, V.** Comment se groupent les élèves d 'une classe. *Bull. Soc. libre Etude psychol. de l'Enfant*, 1913, 13:59-66.

A direct, positive correlation is found between the development of intelligence as revealed by the Binet tests and school work.

**Vaney, V.** Le diagnostic des arriérés scolaires. L'Enfance Anorm., 1913, 20:509-514.

In the past five years the scale has proved a most valuable aid in diagnosing backwardness and feeble-mindedness.

**Villiger, E.** Die Erkennung des Schwachsinn des Kindes. Leipzig: Engelmann, 1913, pp. 90.

A full explanation of the scale and the directions for its application.

**Wallin, J. E. W.** A Practical Guide for the Administration of the Binet-Simon Scale for Measuring Intelligence. Psychol. Clinic, Vol. V., No. 7, Dec. 15, 1911.

Directions for using the 1908 scale. Suggested revisions.

**Wallin, J. E. W.** The New Clinical Psychology and the Psycholo-Clinicist. J. of Educ. Psychol., 1911, 2:121-132, 191-210.

An outline of the development of clinical psychology, its present position and future.

**Wallin, J. E. W.** Human Efficiency. Ped. Sem., 1911, 18:74-84.

Criticism of the scale. Some further suggestions.

**Wallin, J. E. W.** The Present Status of the Binet-Simon Graded Tests of Intelligence. Alienist and Neurol., 1912, 33:162-173.

The need for more norms is great.

**Wallin, J. E. W.** Experimental Studies of Mental Defectives. A Critique of the Binet-Simon Tests. Baltimore: Warwick and York, 1912.

**Wallin, J. E. W.** Eight Months of Psycho-clinical Research at the New Jersey State Village for Epileptics, with Some Results from the Binet-Simon Testing. Epilepsia, 1912, 3:366-380.

The value and shortcomings of the scale demonstrated.

**Wallin, J. E. W.** Danger Signals in Clinical and Applied Psychology. *J. of Educ. Psychol.*, 1912, 2:224-226.

The 1908 scale should be regarded as the standard. Advises wide-range testing. Argues against the appointment of people to psycho-clinical positions who have had but little training.

**Wallin, J. E. W.** Aspects of Infant and Child Orthogenesis. *Psychol. Clinic*, Vol. VI., No. 6, Nov. 15, 1912.

"One of our best schemes of mental classification is the Binet-Simon scale. But after having personally used this scale almost daily for more than two years in the study of the feeble-minded, epileptic, insane, juvenile delinquent and backward children, I am free to confess that, while the great utility of the scale cannot be questioned, it is not by any means the marvelous, unerring machine which it is claimed to be by certain overzealous exploiters, even for the purpose merely of measuring the degree of mental arrest."

**Wallin, J. E. W.** Transactions Nat. Assoc. for Study of Epilep., 1912, 8:29.

**Wallin, J. E. W.** Current Misconceptions in Regard to the Functions of Binet Testing and of Amateur Psychological Testers. 4. Intern. Congr. School Hyg., Buffalo, 1913.

Warns against the amateur and advises less faith in the scale as a perfect mechanism.

**Wallin, J. E. W.** Re-averments Respecting Psycho-Clinical Norms and Scales of Development. *Psychol. Clinic*, Vol. VII., No. 4, June 15, 1913.

Expert preparation for psycho-clinical work should include, by means of an "interneship" of at least one year, the intimate study of sub-normal types, plus a thorough training in psycho-therapeutics. Criticism of recent attempts at revision. Advises the use of ten tests in each year and wide-range testing.

**Wallin, J. E. W.** Binet-Simon Tests in Relation to the Factors of Experience and Maturity. *Psychol. Clinic*, Vol. VIII., No. 9, Feb. 15, 1915.

An analysis of test records to ascertain whether common age standards can be used for sub-normal children and sub-normal adults.

**Wallin, J. E. W.** Who is Feeble-Minded? A Reply to Mr. Kohs. *J. of Crim. Law and Criminol.*, Vol. VII., No. 1, May, 1916.

A reply to the criticism by Mr. Kohs of Dr. Wallin's article, "Who is Feeble-minded?" in the *J. of Crim. Law and Criminol.*, 1916.

**Wallin, J. E. W.** Mental Health of the School Child. New Haven: Yale University Press, 1914.

**Wallin, J. E. W.** Criminal Irresponsibility. *J. of Delinquency*, Nov., 1916, Vol. 1, p. 250.

Recommends conservative policy in considering high grade feeble-mindedness a condition of irresponsibility.

**Wallin, J. E. W.** Experimental Studies of Mental Defectives. Baltimore: Warwick and York, 1912.

A critical study of the Binet scale. 333 epileptic and 378 feeble-minded tested.



**Warburg, F.** The Naming of Colors as a Test of Intelligence Among Children. *Intern. Archiv. f. Schulhyg.*, 1910, 6:183-184.

His findings are positive.

**Watson, J. B.** Content of a Course in Psychology for Medical Students. 20. Ann. Meetg. Amer. Psychol. Assoc., 1911.

Advises the inclusion of a course on the Binet-Simon tests.

**Weigl, F.** Intelligenzprüfung von Hilfsschülern nach der Testmethode. *Beitr. z. Kinderfrschg. und Heilerzg.* 1913, Heft: 111. Also *Zsch. f. Kinder frschg.* 1913, 18:374-380, 455-462, 509-530.

An examination of different test systems, including Binet's, and a tabular comparison of the latter with Ziehen's. Tested fifty-five boys and thirty-eight girls, ages seven to thirteen. Finds scale very valuable for immediate diagnosis.

**Weintrob, J. and R.** The Influence of Environment on Mental Ability As Shown by the Binet Tests. *J. of Educ. Psychol.*, 1912, 3:577-583.

Found that environment had no apparent influence on mental ability. Three large groups of children were compared.

**Wender, Louis.** The Applicability of Binet-Simon Intelligence Tests in Psychoses of the Senium. *N. Y. Med. J.*, Vol. CI., No. 10, Whole No. 1892, Mar. 6, 1915.

The tests used to diagnose mental enfeeblement in the aged.

**Whipple, G. M.** Manual of Mental and Physical Tests. Baltimore: Warwick and York, 1910, pp. 473-517.

Explanation of the 1905 and 1908 scales, with some suggested improvements.

**Whipple, G. M.** The Amateur and the Binet-Simon Tests. *J. of Educ. Psychol.*, 1912, 3:118-119.

Urges the careful use of the scale only by those specially trained.

**Whipple, G. M.** Amateurism in Binet Testing Once More. *J. of Educ. Psychol.*, 1913, 4:301-302.

Condemns the use of the scale by physicians, teachers, nurses and laymen. It is only a tool to be used by the psychologist.

**Whipple, G. M.** The Fourth International Congress on School Hygiene. *J. of Educ. Psychol.*, 1913, 4:476-478.

A brief summary of the conferences on the Binet scale is included in the report.

**Whipple, Dr. and Mrs. G. M.** The Vocabulary of a Three-year-old Boy. *Ped. Sem.*, 1909, 16:19.  
Binet colors.

**White, W. A. and Jelliffe, S. E.** The Modern Treatment of Nervous and Mental Diseases. New York: Lea and Febiger, 1913. Vol. I, pp. 155-174.

A portion of the chapter written by Goddard on the "Educational Treatment of the Feeble-minded" contains the scale as now used in Vineland.

**Widen, L. E.** A Comparison of the Binet-Simon Method and Two Discrimination Methods for Measuring Mental Age. Thesis, Graduate College, Iowa City, 1911.

**Wijsman, J. W. H. und Schreuder, P. H.** Die psychologische Methode Binet und Simons zur Bestimmung des Grades des Intellekts, angewandt bei zurückgebliebenen Schulkindern. *Zuid en Noord*, 1912, 3:186 ff., 323 ff.

**Winch, W. H.** Binet's Mental Tests: What They Are, and What We Can Do With Them. *Child-Study*, 1913, 6: 113-117; 1914, 7: 1-5, 19-20, 39-45, 55-63, 87-90, 98-104, 115-122, 138-144; 1915, 8: 1-8, 21-27, 50-56, 86-92 (to be continued).

A description of the Binet 3-year-old tests given in three London schools. The children tested were from three to seven years of age. The scale is recommended as the best there is, and it is asserted that the tests will prove of immense value in the hands of the teacher.

**Witmer, Lightner.** Congenital Aphasia and Feeble-mindedness. A Clinical Diagnosis. *Psychol. Clinic*, Vol. X., No. 7, Dec. 15, 1916.

Report of a clinical lecture. The case of a ten-year-old boy, two years retarded in school progress.

**Yerkes, Robert M. and Bridges, J. M.** A New Method for Measuring Mental Capacity. Boston Med. and Surg. J., Vol. CLXXI, No. 23, Dec. 3, 1914.

Describes the purpose and method of developing and standardizing the Point Scale.

**Yerkes, Bridges, and Hardwick.** A Point Scale for Measuring Mental Ability. Baltimore: Warwick and York, 1915.

Describes the theory and method of the Point Scale, its development, standardization and revision. Results of the scale with normal and defective individuals.

**Yerkes, Robert M. and Wood, Louise.** Methods of Expressing Results of Measurements of Intelligence: Coefficient of Intelligence. J. of Educ. Psychol., 1916, 7: 593-606.

A review of the methods of expressing intellectual grades with the conclusion that the coefficient of intelligence is the most valuable.

**Yerkes, Robert M.** Mental Examination of Police and Court Cases. J. of Crim. Law and Criminol., Vol. VII., No. 3, Sept., 1916.

Aspects of psychological examinations in courts and penal institutions.

**Ziehen, Th.** Die principien und Methoden der Intelligenzprüfung. Berlin: Karger, 1911, pp. 94.

Some of the Binet tests used in his scheme.

**Zylber, d. et Lublimer, E.** Institut pour enfants arriérés à Varsovie. 1. Congr. intern. de pédol., Bruxelles, 1911.

A private institution founded in 1908 (Warsaw, Russia) finds the scale very valuable for classificatory purposes.

## LITERATURE PERTAINING TO MENTAL TESTS OTHER THAN THE BINET-SIMON SCALE.

**Baldwin, Bird T.** The Normal Child: Its Physical Growth and Mental Development. Reprint from Popular Science Monthly, Dec., 1914.

The relation of the physical growth and school standing of a group of children. The investigation includes tables of physical norms; school standing; and correlation of physical growth to school progress.

**Batson, W. H.** Acquisition of Skill. Psychol. Mono., Vol. XXI., No. 3, July, 1916.

**Bell, J. Carleton.** Mental Tests and College Freshman. J. of Educ. Psychol., 1916, 7: 381-99.

Correlation found between university grades, between class marks and test scores and between the results of tests.

**Bentley, Madison, et al., Ed.** Psychological Index, Year 1915. Psychol. Rev. Pub. Co., Lancaster, Pa.  
Contains bibliography of mental tests.

**Bronner, Augusta F.** Comparative Study of the Intelligence of Delinquent Girls. Teachers College, Columbia Univ. Contrib. to Ed. No. 68.

A study to determine the intelligence of delinquent girls compared with the intelligence of non-delinquents of varying types.

**Bronner, Augusta F.** Construction Test A of the Healy-Fernald Series. Psychol. Clinic, Vol. X., No. 2, Apr. 15, 1916.

An explanation of this test, with norms; replying to "A Study of the Fernald Formboard," Psychol. Clinic, Feb., 1916.

**Bruckner, Leo and King, Irving.** A Study of the Fernald Formboard. Psychol. Clinic, Vol. IX., No. 9, Feb. 15, 1916.

The Healy-Fernald Construction test A with eight- and ten-year-old children.

**Claparède, Ed.** Développement (age) et Aptitude. Extrait du Bulletin de la Société pédagogique. Genoïse, Mars. 1916.

Tests to measure individual aptitude.

**Dearborn, W. F., Anderson, J. E. and Christiansen, A. O.** Form Board and Construction Tests of Mental Ability. J. of Educ. Psychol., 1916, 7: 445-58.

A number of interesting and original performance tests.

**Doll, E. A.** Anthropometry as an Aid to Mental Diagnosis. Publications of the Training School at Vineland, N. J., Research Dept., No. 8, Feb., 1916.

Physical measurements of sub-normals. Although, owing to insufficient data in regard to race, environment, heredity, etc., the investigation has certain limitations, definite correlations are found between physical and mental development, and the diagnostic value of the tests used is unusually high.

**Doll, E. A.** Formboard Speeds as Diagnostic Age-Tests. J. of Psycho-Asthen., 1916, 20: 53-62.

A study based on the records of 432 feeble-minded children. Finds average norms unsatisfactory, but that diagnostic norms may be established.

**Doll, E. A.** Mental Tests and Methods of Testing. Training School Bull., Vol. XIV., No. 1, Mar., 1917.

**Dunham, Francis L.** The Arrow-Board, an Adult "Form-Board" Test. Ped. Sem., 1916, 23: 283-89.

A performance test for adults.

**Ellis, Frederick W. and Bingham, Anne T.** Report of Mental Examinations. Reprint from 7th Annl. Rept. of N. Y. Prob. and Prot. Assoc., Sept., 1915.

Describes Neurological Institute Mental Test and gives representative cases.

**Ellis, Frederick W. and Bingham, Anne T.** Report of Mental Examinations. Reprint from 8th Annl. Rept. of N. Y. Prob. and Prot. Assoc., Sept., 1916.

Gives statement of purpose and background of Mental Testing, and cases of individual delinquents.

**Farrington, E. A.** A Note on the Value of Sensory Gymnastics. Reprint from J. of Psycho-Asthen., 1912, 17: 29-34.

Exercises for the training of the senses and the results obtained.

**Fernald, Guy G.** The Defective Delinquent Class Differentiating Tests. Amer. J. of Insanity, 1912, 68: 523-594.

A scale of tests devised for the purpose of classifying defective reformatory prisoners. Some interesting ethical tests.

**Fernald, Guy G.** The Mental Examination of Reformatory Prisoners. J. of Crim. Law and Criminol., Vol. VII., No. 3, Sept., 1916.

The psychiatrist's method of examination for classifying prisoners according to mental ability.

**Gates, Arthur A.** Experiments on the Relative Efficiency of Men and Women in Memory and Reasoning. Psychol. Rev., Vol. XXIV., No. 2, Mar., 1917.

**Goddard, Henry H.** The Adaptation Board as a Measure of Intelligence. Reprint from Training School Bull., Vol. XI., No. 10, Feb., 1915.

Description of Vineland Adaptation Board with tables of norms.

*A*  
**Goddard, Henry H.** The Form Board as a Measure of Intellectual Development in Children. Reprint from Training School Bull., Vol. IX., No. 4, June, 1912.

A study of the form board with 271 normal children and 420 defectives.

**Goddard, Henry H.** Height and Weight of Feeble-minded Children in American Institutions. Reprint from J. Nervous and Mental Diseases, Vol. 39, No. 4, Apr., 1912.

There is a very high correlation between physical and mental development.

**Gordon, Kate.** A Study of An Imagery Test. J. Philosophy, Psychology and Scientific Methods, Vol. XII., 21, Oct. 14, 1915.

Dr. Fernald's imagery test used with children and adults. Results support Fernald's estimate of the test.

**Groszmann, Maximilian, P. E.** Classification of Exceptional Children as a Guide in Determining Segregation. Reprint from Bull. of Amer. Acad. of Med., Oct., 1909.

A distinction is made between the mental and physio-psychological tests.

**Goudge, Mabel.** A Simplified Method of Conducting McDougall's Spot-Pattern Test. J. of Educ. Psychol., 1915, 6: 73-84.

**Haberman, J. Victor.** Intelligence Examination and Evaluation. Reprint from J. Amer. Med. Assoc., July, 1915.

A protest against mental diagnosis by standardized tests and the Binet Scale. A new outline of tests for determining the relative intelligence of children is offered. Dr. Haberman believes that the one important requirement in a clinical psychologist is that he be a physician.

**Haberman, J. Victor.** Intelligence Examination and Evaluation. Reprint from Psychol. Rev., Vol. XXIII., No. 5, Sept., 1916, and No. 6, Nov., 1916.

Continuation of the article appearing in the Journal of the American Medical Association July 31, 1915. Further criticism of the Binet Scale and explanation of the author's method of mental examination.

**Haines, Thomas H.** The Ohio Plan for the Study of Delinquency. Popular Science Monthly, June, 1915, Vol. LXXXVI., p. 576.

The study of delinquency through sociology, psychology and biology.

**Hall, Gertrude E.** Reports on 52 Border-line cases in the Rome State Custodial Asylum. Eugenics and Social Welfare, Bulletins 4 and 6, N. Y. State Bd. of Char.

**Hall, Gertrude E.** Report on the Standardization of Eleven Mental Tests, Chiefly from the Healy-Fernald Series Standardized by the N. Y. Bureau of Analysis and Investigation. 48. Annl. Rept. State Bd. of Char., 1914.

**Hart, Bernard and Spearman, C.** Mental Tests of Dementia. Reprint from J. of Abnormal Psychol., Oct.-Nov., 1914.

Some experiments to discover the intellectual depreciation in types of insanity.

**Jones, Edward S.** The Woolley Test Series Applied to the Detection of Ability in Telegraphy. J. of Educ. Psychol., 1917, 7: 29-34.

**Karsas, Morris J.** Psychic Constitutional Inferiority. N. Y. Med. J., Mar. 22, 1913.  
Includes Ziehen's Tests.

**Kelley, Truman Lee.** A Constructive Ability Test. Reprint from J. of Educ. Psychol., 1916, 7:1-16.

A manipulative and constructive ability test, with a scale for grading.

**Kellogg, A. L.** Crime and Social Psychology. Psychol. Bull., 1916, 13:454-60.

A brief review of some of the literature of crime, particularly from the viewpoint of classification.

**Kent, Grace Helen.** A Graded Series of Geometrical Puzzles. Reprint from J. of Exper. Psychol., Vol. I., No. 1, Feb., 1916.

One unit of a set of performance tests for measuring abilities of defectives. A particular effort is made to avoid certain difficulties found in the Binet Scale, especially the language difficulty.

**Kent, Grace Helen.** Graded Series of Colored Picture Puzzles. Reprint from J. of Exper. Psychol., Vol. I., No. 3, June, 1916.

The second unit in a set of performance tests. The pictures were chosen with a view to making the tests sufficiently simple and interesting to children of low grade intelligence. A table gives the time records of 29 subjects.

**Kent, Grace Helen, and Rosanoff, A. J.** A Study of Association in Insanity. Am. J. of Insanity, LXVII, 1 and 2. July and Oct., 1910.

**Knox, Howard A.** Measuring Human Intelligence: A Progressive Series of Standardized Tests Used by the Public Health Service to Protect our Racial Stock (Ellis Island). Scientific American, Jan. 9, 1915, p. 52.

A description of the Ellis Island performance tests and the Knox scale for mental measurement.

**Knox, Howard A.** Alien Mental Defectives. Chicago:  
C. H. Stoelting Co.

Describes Knox scale and other tests used to  
test immigrants at Ellis Island.

**Maloney, Wm. J.** On the Reckoning Test and its Uses in  
Psychiatry. Rev. of Neur. and Psychiat., July, 1911.

**Martin, Leila.** A Contribution to the Standardization of  
the De Sanctis Tests. Training School Bull., Vol.  
XIII., No. 4, June, 1916.

Evaluation of the De Sanctis tests with tables  
showing results with normal and feeble-minded  
children.

**Mead, Cyrus D.** The Relations of General Intelligence to  
Certain Mental and Physical Traits. Teachers Col-  
lege, Columbia Univ. Contrib. to Ed., No. 76.

Comparisons of data obtained from normal and  
feeble-minded children for age of walking and  
talking; physical measurements; perception and  
memory; and some additional tests.

**Murphy, Gardner.** An Experimental Study of Literary  
vs. Scientific Types. Amer. J. Psychol., 1917,  
28: 238-62.

**Osborn, Albert S.** Form Blindness or the Psychology  
of Sight in Relation to Legal Procedure. Reprint  
from Vol. 19, No. 12, Case and Comment, Roches-  
ter, N. Y.

Tests of identification of handwriting and type-  
writing.

**Pintner, Rudolph.** The Standardization of Knox's Cube  
Test. Psychol. Rev., Vol. XXII., No. 5, Sept., 1915.

**Pintner, Rudolf and Paterson, Donald G.** A Discussion  
of the Index of Formboard Ability. Psychol.  
Clinic, Vol. X., No. 7, Dec. 15, 1916.

A brief survey of work done with the Seguin  
formboard.

**Pintner, Rudolf and Paterson, Donald G.** The Form-board Ability of Young Deaf and Hearing Children. *Psychol. Clinic*, Vol. IX., No. 8, Jan. 15, 1916.

Results of the test on deaf children compared with those on hearing children. The deaf children were about one year backward in this kind of ability.

**Pintner, Rudolf and Paterson, Donald G.** Learning Tests with Deaf Children. *Psychol. Mono.*, Vol. XX., No. 4, Jan., 1916.

A study of the Symbol-Digit and Digit-Symbol tests with the deaf. The results show that deaf children are behind hearing children in learning ability.

**Pintner, Rudolf and Paterson, Donald G.** A Measurement of the Language Ability of Deaf Children. *Psychol. Rev.*, Vol. XXIII., No. 6, Nov., 1916.

570 deaf children tested with Scale A of the Trabue language scale. Comparisons made of classes; also according to years of work; adventitious and congenital deaf; hearing and deaf children; and correlations made with results of previous study with substitution tests.

**Porteus, S. D.** Mental Tests with Delinquents and Australian Aboriginal Children. *Psychol. Rev.*, Vol. XXIV., No. 1, Jan., 1917.

The Porteus Tests used with two groups of children and the results compared.

**Pyle, W. H.** *The Examination of School Children*. New York: Macmillan, 1913.

Tests for logical and rote memory, substitution, invention and association tests, also physical measurements. Tables of norms.

**Pyle, W. H.** Outlines of Educational Psychology. Baltimore: Warwick and York, 1911.

Text book on the principles of psychology as they bear on education. In addition to chapters on body and mind, heredity, instincts, play, habit, memory and attention, etc., there is a concluding chapter on tests and norms. Physical measurements and tests for learning, logical memory, rote memory, attention, association, imagination and invention are given. A table in the appendix gives the results of certain studies of instincts and the emotive instinctive responses.

**Rosanoff, A. J.** Evaluation of Reactions in an Association Test Designed for the Purpose of Higher Mental Measurements. Reprint from State Hospital Bull., Aug., 1915.

Gives reactions to three stimulus words from subjects of collegiate education, compared with the reactions from subjects of not more than high school education.

**Rosanoff, A. J.** Preliminary Report of a Higher Scale of Mental Measurement. Reprint from State Hospital Bull., Nov., 1914.

A new association test.

**Rowland, Eleanor.** Report of Some Experiments at the State Reformatory for Women at Bedford, N. Y. Reprint from Psychol. Rev., Vol. XX., No. 3, May, 1913.

Experiments to frame a set of tests determining mentality and educability of delinquent women.

**Ruml, Beardsley.** The Measurement of the Efficiency of Mental Tests. Psychol. Rev., Vol. XXIII., No. 6, Nov., 1916.

Formula for evaluating tests.

**Russian Laboratory of Experimental Psychology.** Described in Report of Commissioner of Education, 1915. Vol. I., p. 725.

Experiments in psychology and pedagogy made by Prof. Netschayeff at Petrograd.

**Stewart, S. F.** A Study of Physical Growth and School Standing of Boys. J. of Educ. Psychol., 1916, 7: 414-26.

Correlations of height and weight with scholarship of 207 boys. Records for seven boys.

**Storer, Mary.** The Defective Delinquent Girl. J. of Psycho-Asthen., 1914, 19: 23-30.

A very large proportion of the delinquent girls tested in Ohio were found to be sub-normal. The problem of the segregation of these girls is considered.

**Sylvester, R. H.** The Formboard Test. Psychol. Mono., Vol. XV., No. 4, Sept., 1913.

A study of this test and its standardization, with a history of the Seguin formboard.

**Terman, Lewis M.** Review of Meumann on Tests of Endowment. J. of Psycho-Asthen., 1914-15, 19: 75-94, 123-34, 187-99.

A careful review of Meumann's "Experimentelle Pädagogik" with particular reference to methods and problems of investigations of endowment.

**Thorndike, Edward L.** Tests of Esthetic Appreciation. J. of Educ. Psychol., 1916, 7: 509-22.

A graded series of known merit, ability measured by deviation from correct order.

**Thorndike, Edward L.** Individual Differences in Judgments of the Beauty of Simple Forms. Psychol. Rev., Vol. XXIV., No. 2, Mar., 1917.

The measurement of esthetic appreciation.

**Wallin, J. E. Wallace.** Psycho-Motor Norms for Practical Diagnosis. *Psychol. Mono.*, Vol. XXII., No. 2, Aug., 1916.

A study of the Seguin formboard as a test of perception of form, movement and intelligence. Gives half-year norms, comparison of dull, average and bright children, sex differences and the influence of repetition.

**Weidensall, Jean.** Psychological Tests as Applied to the Criminal Woman. Reprint from *Psychol. Rev.* Vol. XXI., No. 5, Sept., 1914.

Psychological tests as guides to the reform ability of criminal women.

**Weidensall, Jean.** The Mentality of the Criminal Woman. Baltimore: Warwick and York, 1916.

**Wells, Frederick Lyman.** The Relation of Practise to Individual Differences. Reprint from *Amer. J. of Psychol.*, 1912, 23: 75-88.

The extent to which differences in particular functions are inherent in individuals or are the product of environment and education.

**Whitley, M. T.** Empirical Study of Certain Tests for Individual Differences. *Archives of Psychol.*, Vol. III., No. 19. *Columbia Univ. Contrib. to Psychol.*, Vol. 20, No. 1.

**Winch, W. H.** Children's Perceptions. Ed. *Psychol. Mono.*, No. 12. Baltimore: Warwick and York, 1914.

The "aussage" test with the picture D as Frühstück Bild, used previously by Stern. The ability of children to form perceptual judgments at different ages is shown.

**Witmer, Lightner.** A Formboard Demonstration. *Psychol. Clinic*, Vol. X., No. 7, Dec. 15, 1916.

The test given to an eight-year-old subject before a class in mental analysis.

**Woodworth, R. S. and Wells, F. L.** Association Tests. Psychol. Mono., Vol. XIII., No. 5, Dec., 1911.

Description of the Woodworth and Wells tests, instructions for giving standardization.

**Woolley, H. T.** Charting Childhood in Cincinnati. Reprint from Survey, Aug. 9, 1916.

Discussion of study of working girls and boys in Cincinnati.

**Woolley, H. T. and Fischer, C. R.** Mental and Physical Measurements of Working Children. Psychol. Mono., Vol. XVIII., No. 1, Dec., 1914.

A psychological survey of the working children of Cincinnati. 753 children tested. Cancellation, association, completion of sentences and rote memory tests were used, as well as various physical tests.

**Young, Herman H.** Physical and Mental Factors Involved in the Formboard Test. Psychol. Clinic, Vol. X., No. 6, Nov. 15, 1916.

Analytical ratings of individuals for factors appearing in the formboard test, including physical adequacy, mental qualities, summation rating and social competency.

**Young, Herman H.** The Witmer Formboard. Psychol. Clinic, Vol. X., No. 4, June 15, 1916.

Describes the standard method of giving the formboard test and the method of treating results in this study. Includes tables and charts showing the increase of formboard ability by age, necessity of half yearly norms, and sex differences.

**Young, Mary Hoover.**—Correlation of the Witmer Formboard and Cylinder Test. Psychol. Clinic, Vol. X., No. 4, June 15, 1916.

Formboard and Cylinder tests given to university undergraduates and results correlated.

## CLASSIFIED BIBLIOGRAPHY FOR VOCATIONAL PSYCHOLOGY<sup>1</sup>

### 1. Motives of Vocational Psychology.

- Bloomfield, M.: The Vocational Guidance of Youth—Readings in Vocational Guidance.  
Davis, J. B.: Moral and Vocational Guidance.  
Hollingworth, H. L.: Vocational Psychology.  
Münsterberg, H.: Psychology and Industrial Efficiency.  
Parsons, F.: Choosing a Vocation.  
Puffer, J. A.: Vocational Guidance.  
Thorndike, E. L.: "Educational Diagnosis," Science, Jan. 24, 1913.

### 2. The Methods of Industrial Education.

- Bonser, F. G.: Fundamental Values in Industrial Education.  
Bonser and Russell: Industrial Education.  
Hanus, P.: Beginnings in Industrial Education.  
Righter and Leonard: Educational Surveys and Vocational Guidance.  
Weeks, R. M.: The People's School; a Study in Vocational Training.

### 3. Pseudo-Psychological Methods.

Those interested in the historical features of vocational psychology will find innumerable books and monographs on magic, clairvoyance, astrology, chiromancy, palmistry, phrenology, physiognomics, character-analysis, etc. All of these have only historical interest. See also an in-

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<sup>1</sup> Reprinted with permission from "Vocational Psychology," by H. L. Hollingworth. New York and London: Appletons, 1916.

teresting survey of the development and motives of these systems, by Prof. Joseph Jastrow, in Popular Science Monthly, June, 1915.

#### 4. History of Psychological Tests.

- Cattell and Farrand: "Physical and Mental Measurements of the Students of Columbia University," Psychological Review, Nov., 1896.
- Stern, W.: Die Differentielle Psychologie.
- Stern, W.: The Psychological Methods of Testing Intelligence.
- Thorndike, E. L.: Educational Psychology, Vol. III.
- Whipple, G. M.: Manual of Mental and Physical Tests.
- Whitley, M. T.: Tests for Individual Differences.
- Wissler, C.: "Correlation of Mental and Physical Tests." Psychological Review Monograph Supplement, No. 16, 1901.

#### 5. Graded Intelligence Tests and Product Scales.

- Binet and Simon: A Method of Measuring the Development of Intelligence of Young Children.
- Hillegas, M. B.: "Scale for Measurement of Quality in English Composition by Young People," Teachers College Record, Sept., 1912.
- Pyle, W. H.: The Examination of School Children.
- Sylvester, R. H.: "The Form Board," Psychological Review Monograph Supplement, No. 65, 1913.
- Thorndike, E. L.: "Handwriting," Teachers College Record, March, 1910.
- Thorndike, E. L.: "Measurement of Achievement in Drawing," Teachers College Record, Nov., 1913.
- Trabue, M. R.: "A Graded Series of Completion Tests," School and Society, April 10, 1915.

- Trabue, M. R.: "Completion-test Language Scales." Teachers College, Columbia University, Contribution to Education, No. 77, 1916.
- Whipple, G. M.: Manual of Mental and Physical Tests.
- Yerkes and Bridges: Point Scale for Measurement of Intelligence.

#### 6. The Individual Psychograph.

- Hollingworth, H. L.: "Review of Toulouse," Psychological Bulletin, Nov., 1912.
- Stern, W.: Die Differentielle Psychologie.
- Toulouse, E.: Henri Poincare.

#### 7. The Vocational Psychograph.

- Münsterberg, H.: Vocation and Learning.
- Parsons, F.: Choosing a Vocation.
- Schneider, H.: "Selecting Young Men for Particular Jobs," Bulletin 7, National Association of Corporation Schools.
- Seashore, C. E.: "The Measurement of a Singer," Science, Feb. 9, 1912.
- Seashore, C. E.: Psychology in Daily Life. Trade Educational League Bulletins, Boston.

#### 8. Specialized Vocational Tests and Methods.

- Ayres, L.: "Psychological Tests in Vocational Guidance," Journal of Educational Psychology, April, 1913.
- Hollingworth, H. L.: "Specialized Vocational Tests and Methods," School and Society, June 26, 1915.
- Lahy, J. M.: "Les conditions psychophysiologiques de l'aptitude au travail dactylographique," Journal de Physiology, 1913.
- Lough, W. H.: "Experimental Psychology and Vocational Guidance," Proceedings Second Conference on Vocational Education.

- McComas, H. C.: "Some Tests for Efficiency of Telephone Operators," *Journal of Philosophy, Psychology and Scientific Methods*.
- Münsterberg, H.: *Business Psychology*.
- Münsterberg, H.: *Psychology and Industrial Efficiency*.
- Scott, W. D.: "The Scientific Selection of Salesmen," *Advertising and Selling*, October, 1915.
- Taylor, F. A.: *Scientific Management*.
- Woolley and Fischer: "Mental and Physical Measurements of Working Children," *Psychological Review Monthly Supplement*, No. 77.

**9. Self-Analysis of the Individual.**

- Cattell, J. McK.: "Homo Scientificus Americanus," *Science*, XVII.
- Davenport, C. B.: "The Trait Book," *Eugenics Record Office*.
- Partridge, S. E.: An Outline for Individual Study.
- Parsons, F.: *Choosing a Vocation*.
- Thorndike, E. L.: The Original Nature of Man.
- Thorndike, E. L.: "Professor Cattell's Relation to the Study of Individual Differences." In *Psychological Researches of J. McKeen Cattell*, Archives of Psychology, 30.
- Wells, F. L.: "The Systematic Observation of the Personality," *Psychological Review*, July, 1914.
- Yerkes and LaRue: Outline for a Study of the Self.

**10. The Judgment of Associates.**

- Cattell, J. McK.: "Homo Scientificus Americanus," *Science*, XVII.
- Cogan, Lucy G.; Conklin, Agnes M., and Hollingsworth, H. L.: "Self-Analysis, Estimates of Associates, and Psychological Tests," *School and Society*, Vol. II., 1915.

Norsworthy, N.: "On the Validity of Judgments of Character," Essays in Honor of William James.

Simpson, B. R.: "Reliability of Estimates of General Intelligence, with Applications to Appointments to Positions," Journal of Educational Psychology, April, 1915.

11. School Curriculum as a Vocational Test.

Dearborn, W. F.: "The Relative Standing of Pupils in the High School and in the University," Bull. 312, Univ. of Wisconsin, 1909.

Jones, A. L.: "The Value of College Entrance Examinations," Educational Review, Sept., 1914.

Kelley, T. L.: Educational Guidance.

Lowell, A. L.: "College Studies and the Professional School," Harvard Graduates' Magazine, Dec., 1910; Educational Review, Oct., 1911.

Miles, W. R.: "Comparison of Elementary and High School Grades," Iowa Studies in Education, I., 1.

Nicholson, F. W.: "Success in College and in After Life," School and Society, August 14, 1915.

Smith, F. O.: "A Rational Basis for Determining Fitness for College Entrance," University of Iowa Studies in Education, N. S., 51, Dec., 1912.

Thorndike, E. L.: "Educational Diagnosis," Science, Jan. 24, 1913.

Thorndike, E. L.: "The Future of the College Entrance Examination Board," Educational Review, May, 1906. Also Science, Vol. 23, p. 289.

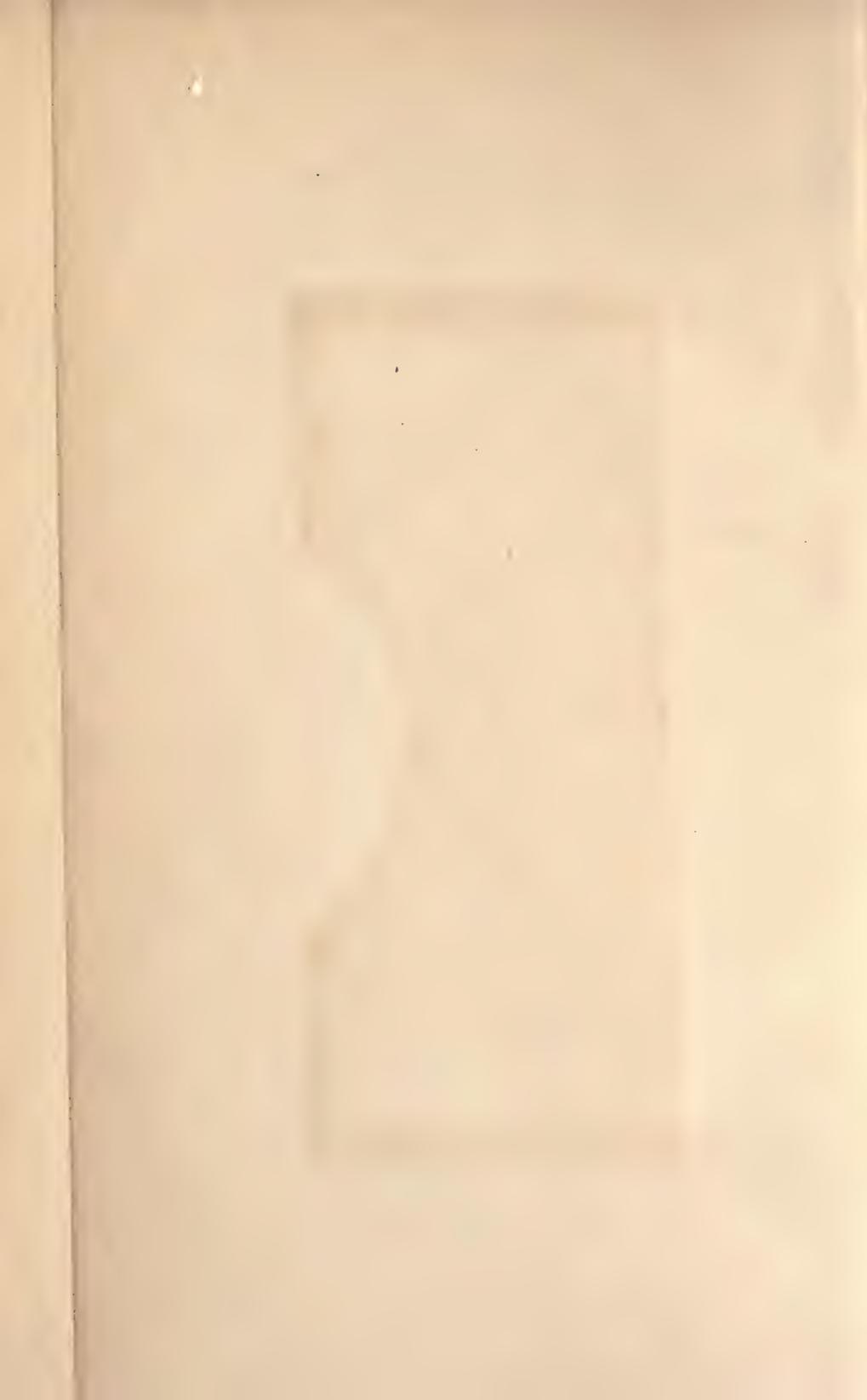
Thorndike, E. L.: "The Permanence of Interests and Their Relation to Abilities," Popular Science Monthly, Nov., 1912.

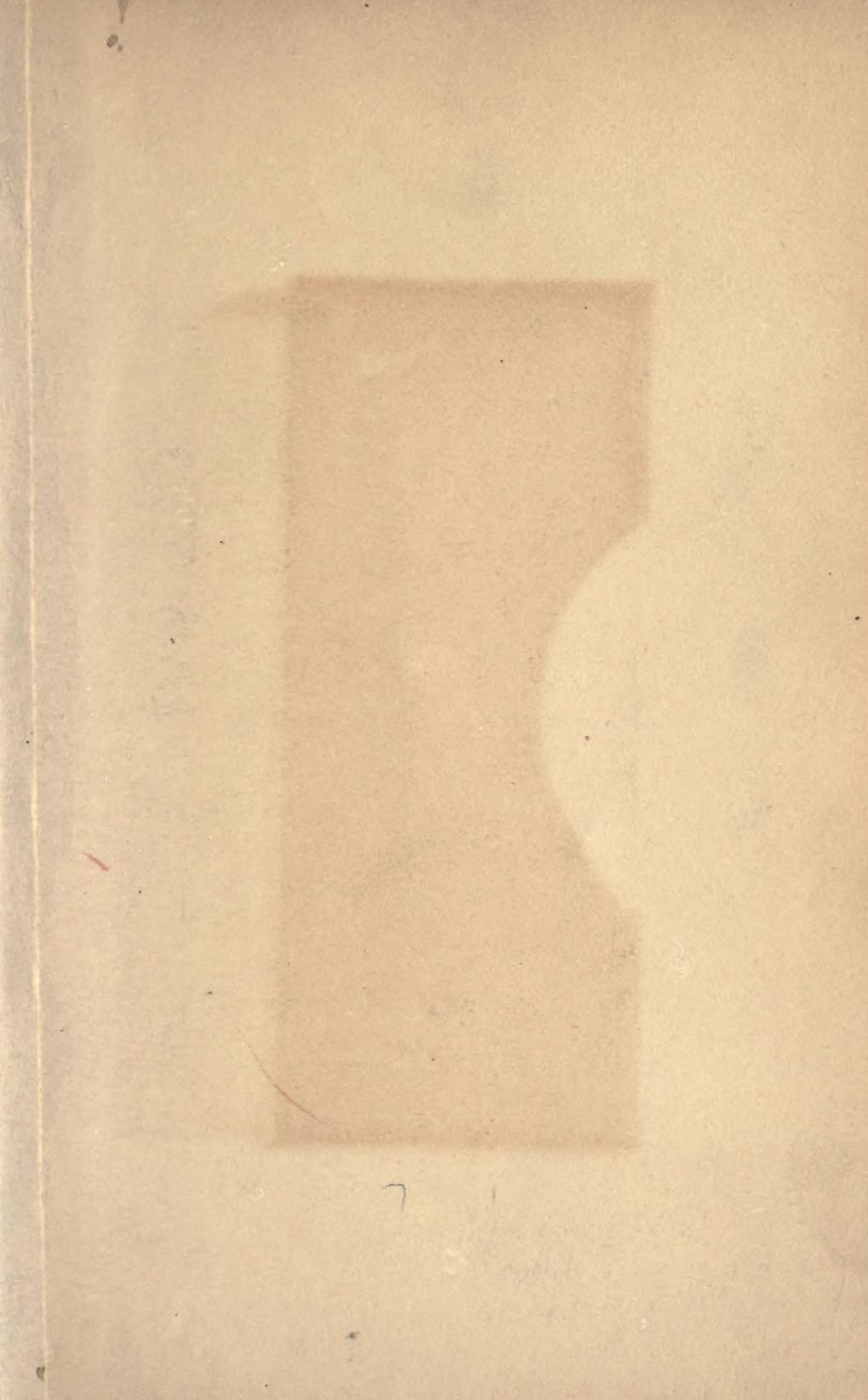
## 12. The Determinants of Vocational Aptitude and the Vocational Aptitudes of Women.

- Castle, Cora Sutton: "A Statistical Study of Eminent Women," Archives of Psychology, No. 27, August, 1913.
- Hollingworth, Leta S.: "An Economic Study of Feeble-Minded Women," Medical Record, June 6, 1914.
- Hollingworth, Leta S.: Functional Periodicity, Teachers College Studies, No. 69, 1914.
- Hollingworth, Leta S.: "Variability as Related to Sex Differences in Achievement," American Journal of Sociology, Jan., 1914.
- Jastrow, J.: Character and Temperament.
- Montague, Helen, and Hollingworth, L. S.: "The Comparative Variability of the Sexes at Birth," American Journal of Sociology, Oct., 1914.
- Münsterberg, H.: Vocation and Learning.
- Münsterberg, H.: Psychology and Industrial Efficiency.
- Pearson, K.: "Variation in Man and Woman," in "Chances of Death," 1897.
- Schneider, H.: "Selecting Young Men for Particular Jobs," Bulletin 7, National Association of Corporation Schools.
- Schneider, H.: The Problem of Selecting the Right Job," National Association of Corporation Schools, Bulletin, June 9, 1915.
- Thompson, Helen B.: The Mental Traits of Sex. —  
Thorndike, E. L.: Educational Psychology, Part III., 1914.
- Wells, F. L.: "The Principle of Mental Tests," Science, Aug. 22, 1913.
- Woolley, Helen: "Sex Differences in Mental Traits," Psychological Bulletin, Oct., 1914.

13. Theory and Principle of Mental Tests as Applied  
in Vocational Analysis.

- Brown, W.: Habit Interference, University of California Publication in Psychology, I., 4.
- Hollingworth, H. L.: "Correlation of Abilities as Affected by Practice," Journal of Educational Psychology, Jan., 1912.
- Hollingworth, H. L.: "Individual Differences Before, During and After Practice," Psychological Review, Jan., 1914.
- Stern, W.: Die Differentielle Psychologie.
- Thorndike, E. L.: "Educational Diagnosis," Science, Jan. 24, 1913.
- Thorndike, E. L.: Mental and Social Measurements.
- Wells, F. L.: "The Principle of Mental Tests," Science, Aug. 22, 1913.
- Wells, F. L.: "Systematic Observation of the Personality," Psychological Review, July, 1914.
- Whipple, G. M.: Manual of Mental and Physical Tests.
- Whitley, M. T.: Tests for Individual Differences.







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